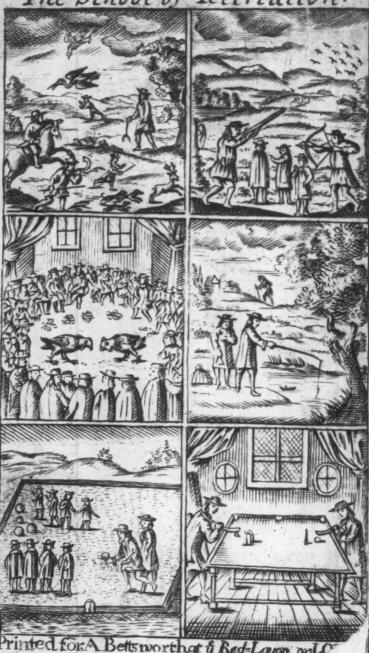
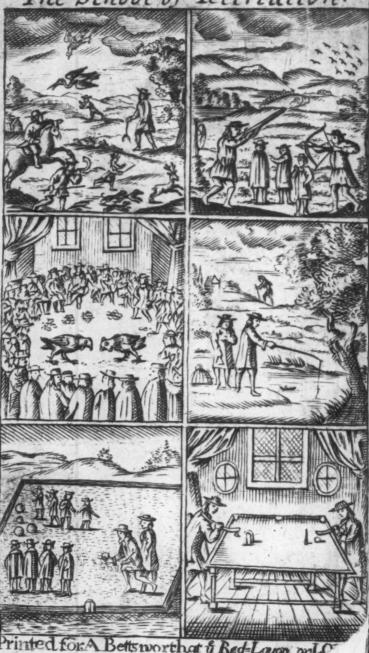
The School of Recreation.



rinted for A Betts worth at & Red-Loyen on LO

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SCHOOL

Recreation;

OR, A

GUIDE

To the

Most Ingenious Exercises

OF

Hunting, Riding, Racing, Fireworks, Military Difcipline, The Science of Defence. Hawking, Tennis, Bowling, Ringing, Singing, Cock-fighting. Fowling, Angling.

By R. H.

LONDON: Printed for A. Bettesworth, at the Red-Lyon on London-Bridge, 1710.



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THE

PREFACE

TOTHE

READER.

D Eader, In this small Book you will find In Such Variety of Recreations, that nothing of the Nature ever appear'd so like Accomplish'd in any one Volume, of what Largeness soever: For, besides my own Experience in these acceptable and delightful Particulars, reduced under proper Heads, easy to be understood, and put in Practice, I have taken the Opinions of those whose Ingenuity bath led them to these Exercises. in Particular or General; And are approved for the Performance of them in the exactest manner, whose judicious Approbations the more embolden'd me to a Publication of them: In which you will not only find Pleasure, and keep up a Healthful Constitution in moderately pursuing them, but in most or all of them, find considerable Profit and Advantage, when you can spare leisure

To the Reader.

leisure Hours from your Devotions, or to unbend your Cares after the tiresome Drudgery of weighty Temporal Matters; Not that I think it is proper so eagerly to pursue them, as if you made them rather a Business than a Recreation; for though in themselves they are harmless, yet a continual or insatiate Prosecution of any Thing, not only lessens the Pleasure, but may render it hurtful, if not to your self, yet in giving Offence to others, who will be apt to resteet upon such as seem to doat upon them, and wholly neglect their other Affairs.

We find the Taste of Honey is delicious and desirable, yet Nature over-burthened with too great a Quantity, surfeits, and begets a loathing of it. Wherefore to conclude, I commend them as they are, viz. Suitable Recreations for the Gentry of England, and others, wherein to Please and Delight themselves. And so not doubting this Work will be accepted, as it was well meant to serve my Country-men, I take leave to subscribe my self, Kind Reader,

Your most humble

And obliging Servant,

R. H.

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OF

HUNTING.

UNTING, being a Recreation that challenges the sublime Epithets of Royal, Artificial, Manly, and War like, for its Stateliness, Cunning, and Indurance, claims above all other Sports the Precedency; and therefore I was induced to place it at the Head to usher in the rest.

But to come to the Purpose: The young Hunter, as yet raw in the true Knowledge of this Royal Sport, with what is meerly necessary and useful, without amusing him with superfluous Observations for his Instruction: I shall therefore observe throughout this Treatise this Method: 1. The several Chases or Games which fall under the first Denomination, Hunting. 2. The genuine of Insalible Rules, whereby we are to direct our selves, for the obtaining the true Pleasure in prosecuting the same, and the desired Essects of it.

Know then; the Beafts of Venery or Forest, are,

viz. The Hart, Hind, Hare.

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As likewise the Wild Beasts, or Beasts of Chase are, viz. the Buck, Doe, Fox, Marten, Roe.

The Beasts of Warren are, viz. Hares, Coneys, Roes. Note, The Hart and Hind before spoken of, though they are of one kind, yet, because their Seasons are several, are esteem'd distinct Beasts; and in the Hart is included the Stag, and all red Deer of Antler.

And because I reckon it the most necessary part of the Hunter to understand the Names, Degrees,

A 4. Ages

Ages and Seasons of the aforesaid different Beasts of Forest or Venery, Chase and Warren, I therefore, present him with these following

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Beasts of Forest, &c.

The Hart the first Year is called a Hind-Calf, 2 a Knobber, 3 a Brock, 4 a Staggard, 5 a Stag 6 a Hart.

The Hind the first Year a Calf, 2 a Hearse, 3 a

Hind.

The Hare the first Year a Leveret, 2 a Hare, 3 a great Hare.

Beasts of Chase.

The Buck the first Year is called a Fawn, 2 a Pricket, 3 a Sorrel, 4 a Sore, 5 a Buck of the first Head, 6 a great Buck.

The Doe the first Year a Fawn, 2 a Teg, 3 a Doe.

The Fox the first Year a Cub, 2 a Fux.

The Martin the first Year a Cub, 2 a Martin.

The Roe the first Year a Rid, 2 a Gyrl, 3 a Hemuse, 4 a Roe Buck of the first Head, 5 a Fair Roe-Buck.

As for the Beafts of Warren, the Hare being spoken of before, little or nothing is to be said.

The Coney is first a Rabbet, and then an old Coney.
Thus much for their Names, Degrees and Ages:
Now let us next observe their proper Seasons for

Hunting.

The Hart or Buck beginneth fifteen Days after

Midsummer-day, and lasteth till Holy-Rood-day.

The Fox from Christmas, and lasteth till the An-

nunciation of the Bleffed Virgin Mary.

The Hind or Dos, from Holy-Rood-day, till Candle.

The Roe-Buck from Easter till Michaelmas. The Roe from Michaelmas till Candlemas.

The Hare from Michaelmas to the end of February.

Thus much I thought fit to speak briefly of the proper Names, Degrees, Ages, and Seasons of the several

Reafts fore, forgot some, I shall insert here, as intending to beak somewhat of them, and they are the Badger, Otter and the Wild Goat.

As for the Terms of Art appropriated to Hunting. And now I bring you to the fecond thing I proposed, viz. the Rules and Measures we are to learn and observe in the foremention'd Sports or Chases, and in this we must begin with the Pursuers or Conquerors of these Chases, namely.

Of Hounds.

There are several kind of Hounds, endued with 6 a Qualities fuitable to the Country where they are bred; and therefore confult his Country, and you bred; and therefore confult his Country, and you will foon understand his Nature and Use: As for Instance, the Western Countries of England, and Wood-land, Mountainous Countries, as also Cheshire and Lancashire, breed the Slow-Hound; a large great Dog, tall and heavy. Worcestershire, Bedfordshire, and many other well mixt Soils, where the Champaign and Covert are equally large, produce the middlefixed Dog, of a more nimble Composure than the foremention'd, and fitter for Chase. Yorkshire, Cumberland, Northumberland, and the North Parts, breed the Light, Nimble, Swift Slender Dog. And our open Champaigns train up excellent Grey-hounds, hogely admired for his Swiftness, Strength and Sagacity. And lastly, the little Beagle bred in all Countries is of exceeding Cunning, and curious Scent in Hunting.

For the Choice of Hounds we are to rely much on their Colours, and accordingly make our Election. The Best and most Beautiful of all for a general Kennel, is the White Hound, with black Ears, and a black Spot at the fetting on of the Tail, and is ever found to be both of good Scent and of good

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Condition, and will Hunt any Chase, but especially the, Hare, Stag, Buck, Roe or Otter, not sticking at Woods or Waters. The next is the Black, the black tann'd, or all Liver-hew'd, or the milk White Hound, which is the true Talbot, is best for the String or Line, as delighting in Blood; the largest is the comliest and best. The Grizled, usually shag-hair'd, are the best Verminers, and so fittest for the Fox, Badger, or other hot Scents; a couple of which let not your Kennel be without, as being exceeding good cunning Finders.

For the Shape of your Hound, you must consult the Climate of his Breed, and the natural Composition of his Body; but by these following Characters, you may know a good Hound. If you like a large, heavy, true Talbot like Hound, see

His Head be round and thick. Nose short and uprising. Nostrils wide and large. Ears large and down-hanging. Upper-lip-Flews lower than his Nether Chaps. Back strong and rising. Fillits thick and great. Thighs and Huckle-bones round. Hams streight. Tail long and rush grown. The Hair of his Belty hard and stiff. Legs Big and Lean. Foot like a Fox's, well claw'd and round. Sole dry and hard. All these shew an able Hound.

If you would choose a swift, light Hound, the Yorkshire one in the generality will please you, for (as these have) he ought to have a slender Head, longer Nose, shallower Ears and Flews, broad Back, gaunt Belly, small Tail, long Joynts, round Foot;

and in fine, of a Grey-Hound-like make.

Thus much to direct the Choice of Hounds; now fomething ought to be spoken of the Composition of Kennels, wherein I must appeal to the Assection of the Gentleman, the Lover of this Sport, and let him tell me the Reasons that induced him to take pleasure in Hounds, whether it ke he fancies Cunning in Hunting? Or Sweetness, Loudness

ness or Deepness of Cry? Or for the Training his Horses? Or for the Exercise of his Body only?

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If for Cunning Hunting; breed your Dogs from the flowest and largest of the foremention'd Northern Hounds, and the swiftest and slenderest of the West Country, of both Kinds, approved to be not given to lie off, or look for Advantages; but staunch fair, even running, and of perfect fine Scent. These will make a Horse gallop fast, and not run; being middle siz'd, not too swift as to out-run, or too slow as to lose the Scent; are the best for the true Art and Use of Hunting.

If for sweetness of Cry; compound your Kennel of some large Dogs, of deep solemn Mouths, and swift in spending, as the Base in the Consort; then twice so many rowing, loud ringing Mouths, as the Counter Tenor: And lastly, some hollow plain sweet Mouths, as the Mean: So shall your Cry be perfect. Observe that this Composition be of the swiftest and largest deep Mouth'd Dog, the slowest and middle-siz'd, and the shortest Leged slender Dog. For these run even together.

If for Loudness of Mouth, choose the Loud Clanging (redoubling as it were) Mouth, and to this put the roaring, spending, and whining Mouth, which will be loud, smart and pleasant: Such are for the most part your Shropshire, and Worcestershire Dogs.

If (lastly) for deepness of Cry, the largest Dogs having the greatest Mouths, and deepest Flews, are the best; such are your West Country, Cheshire and Lancashire Dogs.

But if you have your Kennel for Training Horses only; then compound your Kennel of the lightest, nimblest and swiftest Dogs, such as your Northern Hounds are: Fer the strong and violent Exercises of their Horses, through the Natural Velocity of their Hounds in the North Parts, have rendred them samous

famous for Truth and Swiftness above all other

Parts of England.

Lastly, If for the Maintenance of your Health, by preventing Infirmities and Grossness of Humours, you compose your Kennel; consult first your own Ability for this Exercise; and if you think you are not able to Foot it away, then the biggest and slowest Dogs you can get are best. But if you would pad it away through an Unability of sooting it, than choose the slowest or middle siz'd I sounds, of good Mouths and Noses, for loud Cry. and ready Scent.

Thus far for the Composing a Kennel; I come now to the Kennel it felf, of which I need fay little, as indeed unnecessary, leaving that to the Discretion of the Huntsman; only I would have him observe, that it be built fome pretty way distant from the Dwelling-House, in a warm dry Place, free from Vermine, and near some Pond or River of fresh Water; and fo placed, that the Morning Sun may fhine upon it. Be fure to keep it clean, and let them not want fresh Straw every Day. Feed them early in the Morning at Sun-rising, and at Sun-set in the Evening. As for the Meat, I leave to the ingenious Hant sman to get when they come from Hunting ? after you have fed them well, let them to their Kennel, and wash their Feet with Beer and Butter, or some such thing; and pick and search their Cleys, for Thorns, Stubs, or the like: If it is in Winter, let a Fire be made, and let them beak and stretch themselves for an Hour or so at the Fire, and suffer them to lick, pick, and trim themselves; hereby to prevent the Diseases incident to them, upon sudden Cooling, as the Mange, Itch, Fevers, &c.

But before I treat of the keeping your Hounds in Health by curing their Diseases, I must speak a Word or two of the way to Breed good Whelps, viz. Having a Hound and a Bratch of that general Goodness in Size, Voice, Speed, Scent, and Proportion

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you like, put them together to ingender in January, bruary or March, as the properest Months for Hounds, Bitches and Bratches to be Limed in; because of not losing time to enter them. When you out them together, observe, as near as you can, if the Moon be in Aquarius or Gemini; because the Whelps will then never run Mad, and the Litter will be double as many Dogs as Birch-Whelps. When your Bitch is near her Whelping, separate her from the other Hounds, and make her a Kennel particular by her felt; and fee her Kennel'd every Night, that she might be acquainted and delighted with it, and fo not feek out unwholfome Places; for if you remove the Whelps after they are Whelp'd, the Bitch will carry them up and down till she come to their first Place of Littering; and that's very dangerous. Suffer not your Whelps to Suck above two Months, and then Wean them.

When your Whelps are brought up, inter them not in Hunting till they are at least a Year and half old: That is, if Whelp'd in March, enter them September come Twelve Month; if in April, in

October come Twelve Months after, &c.

When you would enter them, bring them abroad, with the most Staunch and best Hunting Hounds; (all babling and flying Curs being left at home:) and a Hare being the best Entering Chase, get a Hare ready before, and putting her from her Form, view which way she takes, and then lay on your Hounds, giving them all the Advantage may be; and if she is caught, do not suffer them to break her, but immediately taking her, strip off her Skin, and cutting her to pieces, give every part to your young Whelps; and that will beget in them a Delight in Hunting.

Diseases incident to Dogs and their Cures.

hat and bruife them into pieces, make Pottage of it with

with Oatmeal, and Penny-Royal, and give it warm.

Lice and Flees. Boil four or five handfuls of Rue,
or Herb of Grace, in a Gallon of running Water, till
a Pottle be confumed, strain it, and put two Ounces
of Staves-acre poudered, and bathe them with it
warm.

Itch. Take Oil of Flower-de-Lys, Powder of Brimstone, and dry'd Elicampane-Roots, of each a like quantity, and Bay-Salt powdered; mix these Powders with the Oil, and warm it, anoint scratch, and make it bleed, it will do well.

Tetter. Take Black-Ink, Juice of Mint and Vinegar, of each alike, mix them altogether with Powder of Brimtone to a Salve, and anoint it.

Worms. Give your Hound Brimstone and new

Milk, it will kill them.

Gaulling. May-Butter, Yellow-Wax, and unflack'd Lime, made to a Salve, and anoint therewith, is a

present Remedy.

Mange. Take two Handfuls of Wild-Cresses, of Elicampane, of the Leaves and Roots of Roerb and Sorrel, the like quantity, and two pounds of the Roots of Frodels, boil them all well in Lye and Vinegar, strain it, and put therein two Pound of Grey Soap, and after 'tis melted, rub your Hound with it four or five Days together.

For an Ear Disease. Mix Verjuice and Cherwile Water together, and drop into his Ears a spoonful or

two, Morning and Evening.

Sore Eyes. Chew a Leaf or two of Ground-Ivy,

and spit the Juice into his Eyes.

Surbaiting. Wash his Feer with Beer and Butter, and bind young red Nettles, beaten to a Salve, to his Soles.

Biting by Snake, Adder, &c. Beat the Herb Calaminth with Turpentine, and yellow Wax to a Salve, and apply it. To expel the inward Poyson, give the said Herb in Milk.

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Biting by a Mad Deg. Wash the Place with Sea-Water, or strong Brine, will Cure him. The quantity of a Hazzle-Nut of Methridate, dissolved in sweet Wine, will prevent inward Infection.

Madnefs. Lastly, if your Hound be Mad, which you will soon find by his separating himself from the rest, throwing his Head into the Wind, soaming and slavering at Mouth, snatching at every thing he meets, red siery Eyes, stinking silthy Breath; then to knock him on the Head is a present Remedy, and you'll prevent infinite Daugers.

And now I proceed to give some brief Instructions for Hunting the several Chases, viz. the Time when. And the Manner how.

Having your Kennel of Hounds in good Order and Plight, lead them forth, and to your Game; only take this Caution, Do not forget to have in your Pack a couple of Hounds called Hunters in the Highways, that will Scent upon hard Ground, where he cannot perceive Pricks or Impressions; and let a couple of Old stench Hounds accompany you, by whose sure Scent the too great Swiftness of the young and unexperienced One may be restrained and regulated.

Of Hart or Stag Hunting.

To understand the Age of this our Game, it is known by several Marks, amongst which this is the most authentick: That if you take his View in the Ground, and perceive he has a large Foot, a thick Heel, a deep Print, open Cleft, and long Space, then be assured he is Old, as the contrary concludes him Young.

To find him examine the following Annual, or Monthly.

November in Heaths among Furs, Shrubs and Whins.

Decm-

December in Forests among thick and strong Woods. January in Corners of the Forests, Corn-fields, Wheat, Rye, &c. we:

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February and March, amongst young and thick

Bulhes

April and May in Coppices and Springs.

June and July in Out-Woods and Purlieus, nearest the Corn-field.

September and October, after the first Showers of Rain, they leave their Thickets, and go to Rut, during which time there is no certain Place to find

them in.

When you have found him in any of these Places, be careful to go up the Wind; and the best time to find him is before Sun-rifing, when he goes to feed; then watch him to his Leir, and having lodged him, go and prepare; if he is not forced, he will not budge till Evening. Approaching his Lodging, cast off your Finders, who having Hunted him a Ring or two, cast in the rest; and being in full Cry and main Chafe, Comfort and Cheer them with Horn and Voice. Be fure to take Notice of him by fome Mark, and if your Dogs make Default, rate them off, and bring them to the Default back, and make them cast about till they have undertaken the first Deer; then cheer them to the utmost, and so continue till they have either fet up or flain him. It is the Nature of a Stag to feek for one of his kind, when he is Imbost or weary, and beating him up, lie down in his Place; therefore have a watchful Eye unto Change. As likewise by taking Soil (i. e. Water) he will swim a River just in the middle, down the Streme, covering himself all over but his Nose, keepingthe middle, least by touching any Boughs, he leave a Scent for the Hounds; and by his Croffings and Doublings, he will endeavour to baffle his Persuers: In these Cases, have regard to your Old Hounds, as I faid before. When he is Imboff or weary,

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weary, may be known thus: By his creeping into holes, and often lying down; or by his running tiff, high and lumbring, flavering and foaming at he Mouth, shining and blackness of Hair, and much Sweat; and thus much for Stag or Hart-Hunting. As for the Buck, I shall not speak any thing, for he that can Hunt a Stag well, cannot fail Hunting a Buck well. As likewise for the Roe-Hunting, I refer you to what is spoken of the Hart or Stag.

Of Hare-Hunting.

As for the Time, the most proper to begin this Game, note: That about the middle of September is best, and to end towards the latter end of February, when furcease, and destroy not the young early Brood of Leverets: And this Season is most agreeable like. wife to the Nature of Hounds moist and cool. for the Place where to find her, you must examine and observe the Seasons of the Year; for in Summer or Spring-time, you shall find them in Corn-fields and open Places, not fitting in Bushes, for fear of Snakes, Adders, &c. In Winter, they love Tuffs of and Brambles, near Houses: In these Therns Places, you must regard the Oldness or Newness of her Form or Seat, to prevent Labour in Vain: If it be plain and fmooth within, and the Pad before it flat and worn, and the Prickles to new and perceptible, that the Earth feems black, and fresh broken, then affure your felf the Form is new, and from thence you may Hunt, and recover the Hare; if the contrary, it is old, and if your Hounds call upon it, rate them off. When the Hare is started, and on Foot, step in where you saw her pass, and holow in your Hounds till they have undertaken it, then go on with full Cry. Above all, be fure to observe her first Doubling, which must be your Direction for all that Day; for all her other after Doublings will bethe that. When she is thus reduced to the Slights and

and Shifts she makes by Doublings and Windings, give your Dogs Time and Place enough to cast about your Rings, for unwinding the same; and observe her Leaps and Skips before she squat, and beat curiously all likely Places of Harbour: She is soon your Prey now.

Of Coney-Catching.

Their Scasons are always, and the way of taking them thus: Set Pursenets on their Holes, and put in a Ferres close muzzled, and she will boult them out into the Nets: Or blow on a sudden the Drone of a Bag-Pipe into the Burrows, and they will boult out: Or for want of either of these two, take Powder of Orpiment and Brimstone, and boult them out with the Smother: But pray use this last seldom, unless you would destroy your Warren. But for this Sport, Hays are to be preferred above all.

Of Fox-Hunting.

January, February, and March, are the best Seasons for Hunting the Fox above Ground, the Scent being then firong, and the coldest Weather for the Hounds, and best finding his Earthing. Cast off your fure Finders first, and as the Drag mends, more; but not too many at once, because of the Variety of Chases in Woods and Coverts, The Night before the Day of Hunting, when the Fox goes to prey at Midnight, find his Earths, and stop them with Black. Thorns and Earth. To find him draw your Hounds about Groves, Thickers, and Bushes near Villages; Pigs and Poultry inviting him to fuch Places to Lurk in. They make their Earths in hard Clay, stony Grounds, and amongst Roots of Trees; and have but one Hole He is usually taken streight and long. Hounds, Grey-Hounds, Terriers, Nets and Gins. en of cle ne o Strin ind l

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This Creature has several Names, as Gray, Brock, noreson, or Bauson; and is hunted thus. First, go eek the Earths and Burrows where he lieth, and in clear Moon-shine Night, stop all the Holes but one or two, and in these fasten Sacks with drawing Strings; and being thus set, cast off your Hounds, and beat all the Groves, Hedges and Tusssa Mile cr two about, and being alarm'd by the Dogs, they will repair to their Burrows and Kennels, and running into the Bags, are taken.

Of the Marten or Wild-Cat.

These two Chases are usually hunted in England, and are as great Infesters of Warrens as the two last mention'd Vermine, but are not purposely to be sought after; unless the Huntsman see their Place of Prey, and can go to it; and if the Hound chance to cross them, Sport may be had. But no Rule can be prescribed how to find or hunt them.

Of the Otter.

This Creature useth to lye near Rivers in his Lodging, which he Cunningly and Artificially builds with Boughs, Twigs and Sticks. A great Devourer It is a very fagacious and exquifitely Smelling-Creature, and much Cunning and Craft is required to hunt him. But to take him, observe this in short. Being provided with Otter-Spears, to watch his Vents, and good Otter-Hounds, beat both fides of the River Banks, and you'll foon find if there is any. If you find him, and perceive where he swims under Water, get to stand before him when he Vents (i. e. takes Breath) and endeavour to strike him with the Spear: If you miss him, follow him with your Hounds, and if they are good for Otter, they will certainly beat every Tree-root, Bulrush-Bed, or Osier-Bed, so that he cannot escape you.

Of the Wild-Goat.

The Wild-Goat is as big and as fleshy as a Hart and V but not so long Legg'd. The best time for hunt-rein'd ing them, is at All-hallontide, and having observed feed t the Advantages of the Coasts, Rocks and Places, and C where the Goats lie, fet Nets and Toils towards the Tyere Rivers and Bottoms; for 'tis not to be imagin'd centle the Dogs can follow them down every Place of the Butto Mountains. Stand some on the tops of the Rocks, With and as occasion offers, throw down Stones; and place your Relays at the small Brooks or Waters, where him o the Goat comes down; but let them not tarry till the fingal Hounds come in, that were cast off.

Thus much for HUNTING.

Of RIDING.

HERE we must first examine the Ends and De-fign of our proposing this Art to our selves, and accordingly lay down as briefly as may be the necessary Rules and Lessons are to be observed and learnt; and I take these to be the usual Persections we aim at, To Ride well the great Horse, for the Wars or Service, and the Horse for Pleasure; of both which

as concifely as I can in their Order.

We must begin with Taming a Young Colt. After you have kept him at home some time, and made him so Familiar with you, as to suffer Combing, Currying, Handling and Stroaking any part, 'tis high time then to offer him the Saddle; which you must lay in the Manger first, that by its smell he may not be afraid of it, or the Styrrups Noise. Then gently Saddling him (after his drefling) take a fweet Watering Trench, anointed with Honey and Salt, and place it in his Mouth fo, that it may hang directly over

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over his Tush; then lead him abroad in your hand, art and Water him; and after he has stood an Hour nt rein'd, take of his Bridle and Saddle, and let him ved feed till Evening; then do as in the Morning; Dress ces, and Cloath him, having Cherisht, by the Voice dethe vered smoothly and gently; or by the Hand, by n'd rently stroaking and clapping him on the Neck, or the Suttock; or lastly by the Rod, by rubbing it on his ks, Withthers or Main.

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On the next Day as before; and after that, put ere im on a strong Musrole, or sharp Cavezan and Marthe ingale, which is the best Guide to a Horse for seting his Head in due place, forming the Rein, and appearing Graceful and Comely; it Corrects the verking out his Head or Nose, and prevents his running away with his Rider. Observe therefore to place it right, that it be not buckled straight, but loose, and so low, that it rest on the tender Grizsle of his Nose, to make him the more sensible of his Fault and Correction; and so as you see you win his Head, bring him straighter by Degrees; let him but gently feel it, till his Head be brought to-its rue Perfection.

Having observed this well, lead him forth into ome fost or new Plowed Land, trot him about in your hand a good while: Then offer to Mount; if e refuse to suffer you, trot him again, then putting your Foot again into the Styrrap, mount half way; f he takes it impatient, correct him, and about again; if not, cherish him, and place your self a moment in the Saddle, dismount, cherish, and feed him with Grass or Bread: All things being well, remount, even in the Saddle, keeping your Rod from his Eye; then let one lead him by the Chaff-Halter, ind ever and a-non make him stand, and cherish him. ill he will of his own accord go forward; then tors home, alight gently, dress and feed him well. This Course in few Days will bring him to Trot. (B)

by following some other Horsemen, stop him not back and then gently, and forward; not forgetting feacher fonable Cherishings and Corrections, by Voice, Bridle him

Rod. Spur.

Being thus brought to some certainty of Rein, an back Trotting forth-right, then to the treading forth of the may large Rings. And here, first examine your Horse Nature before you choose your Ground; for if hi Whe Nature be dull and sloathful, yet strong, then New Hand Plow'd-fields is best; if Active, Quick and Fiery, the your Sandy-ground is to be preferr'd, in the most prope which of which, mark out a large Ring of 100 Paces Cir Pradicumference. Walk about it on the right seven o make eight times; then by a little straightning your right and Rein, and laying your left Leg Calf to his side Legs make a half Circle within the Ring upon you too he right, down to its Center; then by straightning ring of little your left Rein, and laying your right Les Fault Calf to his fide, make a half Circle to your lef To Hand, from the Center to the outmost Verge, and learns these you see contrary turned, make a Roman S him a Now to your first large Compass, walk him about or make your less Hand, as oft as before on the Right, and cherichange to your Right within your Ring; then Tro out him first on the Right hand, then on the Lest, a Groul long as you judge sit, and as often Mornings and out the Evenings as the Nature of your Horse shall require is on In the same manner you may make him to Gallot Suley. In the same manner you may make him to Gallot faulty the same Rings, though you must not enter it al staying at once, but by Degrees, first a Quarter, then under Half-quarter; and the Lightness and Cheerfulness of To your Body, not the Spur, must induce him to it. Targe

The next Lesson is to Stop Fair, Comely, and ill ac without Danger. First, see that the Ground be hard and ft and firm, then having Cherisht your Horse, bring inmot him to a fwift Trot, about Fifty Paces, and the trot straightly and suddainly draw in your Bridle-Hand ceffic then ease a little your Hand to make him giv make

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not backward, and in so doing, give him Liberty, and fee therish him; then draw in your Bridle-hand, make Hand; if he refuse, let some By-stander put him

an back, that he may learn your Intention, and thus he may learn these two Lessons at once.

To advance before, when he stoppeth, is thus taught: his When you stop your Horse, without easing your Hand, lay close and hard to his sides both Calves of her your Legs, and shaking your Rod cry, Up, Up; ope which he will understand by frequent Repetition and Cir Practice: This is a Graceful and Comely Motion, makes a Horse Agile, and Nimble, and ready to turn; igh and therefore be careful in it, that he take up his fide Legs even together, and bending too his Body, not ou too high, for fear of his coming over; not sprawlg ing or pawing, or for his own Pleasure; in these Les Faults correct him with Spur and Rod.

lef To Trk out behind is the next Lesson; thus and learnt, presently upon your making him stop, give in S him a good brisk jerk near his Flank, which will to make him soon understand you. When he does it and cherish him, and see he does it comely, for to yerk out his hinder Legs, till his fore Legs be above and out than the other; or one Leg out while the other live is on the Ground; in this Case a single Spur on the loss faulty side is best. But to help him in Yerking,

al staying his Mouth on the Bridle, striking your Rod in under his Belly, or touching him on the Rump withit. To Turn readily on both Hands, thus: Bring his large Reins narrower, and therein gently walk him, and till acquainted. Then carry your Bridle-hand steady hard and streight, the outmost rather streighter than the ring inmost Rein, to look from rather than to the Ring; there they have a foresaid. After some time stop, and give make him advance twice or more, and retire in an acceptable.

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even Line: then stop and cherish him. To it again after the same manner, making him lap his outmos Leg above a foot over his Inner. And thus the Terra a Terra, Incavalere and Chambletta are all taugh him t Perfect your Horse in the large Ring then

and the streight Ring is easily learnt.

Your Horse being thus far brought to Perfection with the Mufrole and Trench, now let a gentle Cave zan take their Place; with a smooth Cannon-Bit in his Mouth, and a plain watering Chain, Cheek large time and the Kirb-thick, round and big, loofely hanging lengt on his nether Lip; and thus mount him, and per fect your Horse with the Bit in all the aforesaid Lessons, as you did with the Snaffle; which indeed the

is the easier to be done of the two.

To Teach your Horse To go aside, as a necessar the C Motion for shunning a blow from an Enemy, i Ring thus: Draw up your Bridle-hand somewhat streight of yo and if you would have him go on the Right, lay hen your left Rein close to his Neck, and your left gain Calf likewise close to his side (as in the Incavalen your before) making him lap his left Leg over his right habit then turning your Rod backward, jerking him or rance the left hinder Thick garden the left hinder Thigh gently, make him to bring to erve the right fide his hinder Parts, and stand as at first The in an even direct Line: Then make him remove telpt his fore Parts more, that he may stand as it were him Cross over the even Line, and then bring his hinder Parts after, and stand in an even Line again. And thus you must do, if you would have him go on the left Hand using your Corrections and Cherishings or the right. Use it, and you may be sure of Perfection.

For the Correere, only take this: Let it not extend in length above fix fcore Yards, give your Horf Fiery, warning before you start him by the Bridle-Hand lodie and running full speed, stop him suddainly firm ies and close on his Buttock.

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gain For the Horse of Pleasure, these following Lessons most e to be learnt. As first to Bound alost, to do which, the Frot him some sixteen Yards, then stop, and make ugh him twice advance; then streighten your Bridle-hand; then clap briskly both your Spurs even together him, and he will rise, tho' it may at first amaze this im; if he does it cherish him, and repeat it often

ave every Day, till perfect.

And

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Next to Corvet and Capriole are Motions of the arge ame Nature, and in shortare thus taught. Hollow he Ground between two joyning Walls a Horse ength, by the side of which, put a strong smooth of the same length from the Wall, and fasten the Wall an Iron Ring over against the Post: Thus one, ride into the hollow Place, and fasten one of the Cavezan Reins to the Post, and the other to the Ring; then cherish him, and by the help of the Calves of your Legs, make him advance two or three times; hen pause and Cherish him; make him advance less gain a dozen times more, and then rest; double gain a dozen times more, and then rest; double aler your Advancings, and repeat them till it becomes the sabitual to him, to keep his Ground certain, advance of an equal height before and behind, and object erve a due Time with the Motions of your Legs. The Inequality of his advancing his hinder Legs, is not the life by a Jerk on the Fillets by some Body behind were him with a Rod.

Of RACING.

RACER must have the Finest, Cleanest Shape possible, and above all, Nimble, Quick, and orsery, apt to Fly with the least Motion; nor is a long and sodied contemptible, it assuring Speed, the it signifies Weakness too. The Arabian, Barbary, or his last and, are esteemed the best for this Use,

these excelling Jennets, tho' they are good too Having furnished your felf with a Horse thu qualified, you are to observe his Right and due On dering, before your defigned Racing. Bartholmen. tide is the most proper time to take him from Grasi the Day before being dry, fair, and pleafant: Tha Night let him stand conveniently to empty his Body the next Day stable him, and feed him with Wheat from that Day, and no longer; lest you exceeding that time, it straighten his Guts, heat his Liver, and hurt his Blood; for want of Straw, Riding him Morning and Evening to Water, Airing or other moderate Exercises will serve. Then feed him with good old fweet Hay, and according to the Seafon and Temperature of his Body, cloth him; for smooth Coat shews Cloth enough, and a rough Coa want of it. Observe likewise where you Water your Race-Horse, that it may be a running Water, or clear Spring, far distant (a Mile or more) from the Stable, adjoining to some Level; where after he has once well drank, Gallop him, and so Water and Scope him, till that he refute to drink more for that time; then Walk him gently home (being an Hour on your way or more) cloth, and ftop him round with foft Wisps, and let him stand an Hour upon his Bridle, and after feed him with Iweet found Oats throughly dry'd, either with Age, Kiln, or Sun; if he be low of Flesh, or bad Stomach, add a third part of clean Old Beans, or two parts of Oats, or Wash his Oats in strong Beer or Ale.

For Dreffing; take these Rules. Dress your Horse twice a Day before you Water him, both Morning and Evening, thus; Curry him after he is uncloath'd from his Ear-tips to his Tail, and his whole Body in tirely (fave his Legs under the Knees and Cambrels efore with an Fron-Comb; then dust him, and rub him piste ; with a Brush of Bristles over again; dust him again you and wetting your Hand in clean Water, rub off all d ffr.

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loose Hairs, and so rub him dry as at first; n with a fine Hair-Cloth rub him all over ; and lly, with a fine Linen-Cloth, and then pick his es, Nostrils, Sheath, Cods, Tuel and Feet clean. The best Food for your Racer, is good sweet, ell dry'd, sunned and beaten Oats: Or else Bread de of one part Beans, and two Parts Wheat, i. e. o Bushels of Wheat to one of Beans, ground tother: Boult through a fine Range half a Bushel of e Meal, and bake that into two or three Loaves by felf, and with Water and good store of Barm, ead up, and bake the rest in great Loaves, having ted it through a Meal-fieve : But to your finer, u would do well to put the Whites of Twenty thirty Eggs, and with the Barm a little Ale, 'tis matter how little Water): With the Courfer, ed him on his Resting Days, on his Labouring-days ith the finer.

The best time for feeding your Runner on his he esting-days, is, after his Watering in the Morng, at Onea Clock at Noon, after his watering in the vening. and at 9 or 10 a Clock at Nights: On his ui ays Labour, two Hours after he is throughly Cold

no twardly and inwardly, as before.

on As for the Proportion of Meat, I shall not conhe your Love to a Quantity, only give him a little once, as long as his Appetite is Good. When he gins to fumble and play with his Meat, hold your

nd, thut up your Sack.

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As for his Exercise, it ought to be thrice a Week. rfe his bodily Condition requires; if he be foul, mong rate Exercise will break his Grease; if clean, then you judge best, taking heed or breaking his Limbs.
in e, or discouraging him, or laming his Limbs.
Air him, to add to his Wind, it is rein pisse to give him a raw Egg, broken in his Mouth:
in your Horse be very Fat, air him before Sun-rising
al differ Sun-set; if lean, deprive him not of the che B 2

least strength and comfort of the Sun you can d vise. To make him Sweat sometimes by Coursin him in his Cloaths is necessary, if moderate; b without his Cloaths, let it be sharp and swift. that he be empty before you Course him; and it wholesome to wash his Tongue and Nostrils wit Vinegar, or Pifs in his Mouth, before you back him And after his Exercise, cool him before you con home, House, Litter, and rub him well and dry then cloath him, and give him after every Course Scouring, thus prepared.

For Scouring a Race-Horfe.

Take 20 Raisins of the Sun stoned, 10 Figs sit the midst, boil them till they be thick in a Pottle fair Water, mix it with Powder of Annis-feeds, Ly rice and Sugar-candy, till it come to a stiff Paste, ma them into round Balls, roul them in Butter, a give him three or four of them the next Mornin after his Course, and ride him an Hour after, an then fet him up warm. Or this may be preferred, bein both a Purge and a Restorative, a Cleanser and

Comforter, thus prepared.

Take three Ounces of Annis-seeds, fix Drams Cummin-seeds, one Dram and half of Carthamus, of Ounce and two Drams of Fenugreek-feed, one Oun and half of Brimstone; beat all these to a fine Pol der, and fearfe them; then take a Pint and to Ounces of Sallet-Oyl, a Pint and half of Honey, as a Pottle of White-wine; then with a sufficient Qua end of tity of fine white Meal, knead and work all well in he Ea a stiff Paste; keep it in a clean Cloth for use. Whenese Occasion requires, dissolve a Ball of it in a Pail or the Water, and after Exercise, give it him to drink and Ba the dark, that he may not see the Colour, and refusery it : If he does refuse, let fasting force him to be he W another Mind.

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Of Artificial Fire-works. 29

To conclude these Instructions, I will give you m in short before you run, and then away as fast as ou can.

Course not your Horse hard 4 or 5 Days before you atch, lest you make his Limbs fore, and abate his Speed. Muzzle him not (except a foul Feeder) above two or ree Nights before the Race, and the Night before his body Courses:

con Give him sharp as well as gentle Courses on the Race

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Shooe him a Day before you run him. Let him be empty on the Match Day.

Saddle him in the Stable, and fix to him the Girths

and Pannel with Shooe-makers Wax.

Lead him with all gentleness to his Course, and les tle im smell other Horses Dung to provoke him to stale, &c.

And lastly, being come to the starting Place, rub im well, uncloath him; and then take his Back, nd the Word given, with all Gentleness and Quietels possible, start and away; and God speed you well.

chool of Recreation. How to make Artificial Fire works of all forts for Pleasure, &c.

Po F Artificial Fire-works for Recreation, there y, at are three general forts, viz. Those that as-Him he Earth: And fuch as burn on the Water. And Whenese are again divided into three Particulars, viz. ail for the Air the Sky-rocket, the flying Saucisson, ink and Balloon: For the Earth the Ground-rocket, the refu ery Lances, and the Saucissons descendent. For be he Water-Giobes or Balls, double Rockets, and ingle Rockets; and of these in their particular B 3 Orders,

Of Artificial Fire works.

Orders, to make them, and fuch other Matters, may occur relating to Fire-works.

But before I enter particularly on them, it w not be amiss to give the unlearned Instructions s

making his Moulds for Rockets, &c.

This Mould must be of a substantial piece Wood well feafon'd, and not fubject to split warp; and first the Caliber or Bore of it, being Inch in Diameter; the Mould must be fix Inche long, and breech an Inch and half; the Broach the enters into the Choaking part, three Inches and a ha long, and in Thickness a quarter of an Inch. Rowler on which you wrap the Paper or Paste-boar being three quarters of an Inch Diameter, and the Rammer somewhat less, that it may easily pass an re-pass, made hollow to receive the Broach; for the Cartoush Coffin must be filled with the Material the Broach being in.

If the Bore be two Inches Diameter, the Rock must be twelve Inches in length: If an Inch and half in Bore, then nine Inches long, and fo pro portionably to any other Diameter. The Cartoul or Case, must be either strong Paper or fine Paste board, choaked within an Inch and quarter of th top, rowled on the Rowler with a thin Paste, to kee the Doublings the nigher together, that it may hav the greater force and nigher flight. Having thus fa confidered your Mould and Cartoush or Case, I pro ceed to the Composition and filling part, &c.

A Sky-Rocket, how to make it, &c.

In the Composition of your filling Materials be blev very cautious that you exceed not the just Propor Sul tion, for which I shall give Directions to be a Stan a thindard in this Case, viz. Having beat a Pound of and Powder very fine, and sifted it through a Lawn mor Sieve, that no whole Corns remain in it; do the a fif Sieve, that no whole Corns teniam that then like by two Ounces of Charcole; then fift then together

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ogether, so that they may mix well, which done, Il a small Rocket with this Mixture, and if it break n mounting, before it come to the supposed height, r burns out too fierce, then is there too much Powler, and more fine fifted Charcole must be added; but if there be too much Carcole in the Composiion, then upon trial it will not afcend, or very ittle.

Observe in charging your Rocket, at every quarer of an Ounce of Ingredients, or thereabouts, you am it down very hard, forcing your Rammer with wooden Maller, or some weighty piece of Wood, but no Iron or Stone, for fear any Sparkles of Fire ly out and take your Combustible Matter; so fill it y Degrees. If you defign neither to place Stars, Quills, or small Rockets on its Head; you may put n about an Inch and a half of dry Powder for the Bounce; but if you are to place the fore-mention'd hings on the Head of a great Rocket, you must blose down the Paper or Paste-board very hard, and prick two or three holes with a Bodkin, that it may give Fire to them when it expires, placing a large Cartoush or Paste-board on the Head of the Rocket, nto which you must put the Stars or small Rockets, Paper-Serpents or Quill Serpents; of which I shall peak more hereafter.

Note further, That if you would have your Rocket parkle much you must put some grossy bruised Saltpeter into the Composition; but then it must not lie long before it be let off, for fear it give and samp the Powder. If you would have it leave a Is b blew Stream, as it ascends, put fine beaten and sifted opor Sulphurinto it, but of neither of these more than Stan a third part of Charcole; and in this manner greater d of and lesser Rockets are made, but the lesser must have awn more Powder and less Charcole than the greater, by

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Golden Rain, and Golden Hair.

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For Golden Rain, or Streams of Fire, that will when at height, descend in the Air like Rain : Take large Goofe-Quills, take only the hollow Quill a long as may be, fill it with beaten Powder and Charcole; as for the Air-Rocket only add a little Powder of Sulphur. Being hard filled to a quarte of an Inch, stop that with wet Powder, called Wild-fire; place as many as you think convenien on the Head of a great Rocket, pasted on in a Row of Paper, fo that it may not fall off till the Rocke bursts, there being a little dry Powder in it to force the end when the Stream of Fire ceases, as which ho time they taking, will appear like a Shower of Fin of a golden Colour, spreading themselves in the sla Air, and then tending directly downwards. This We is to be confidered when you fland directly, or some thing near under them; but if you are at some Distance, then they will appear to you like the An Blazing Tail of a Comet or Golden Hair.

Silver Stars, how to make them.

To make Stars that will expand in Flame, and appear like natural Stars in the Firmament for time: Take half a Pound of Salt-petre, the like quantity of Brimstone, finely beaten together, fifted and mingled with a quarter of a Pound of Gunpow der so ordered: Then wrap up the Composition in Linen-Rags or fine Paper, to the quantity of Walnut, bind them with small Thread, and prick holes in the Rag or Paper with a Bookin, and place fix or ten of them on the Head of a great Rocket, a you did the Quills, and when the Rocket expires they take Fire and spread into a Flame, hovering in the Air like Stars, and descend leisurely till the into Matter is spent that gives them light. Re

Red fiery coloured Stars, bow to make them.

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Take in this Cafe half a pound of Powder, and ouble the quantity of Salt-petre; as much fine lower of Brimstone as Powder, wet them with fair Vater and Oil of Petroleum, till they will stick toether like Pellets; then make them up somewhat ess than the former, and rowl them in sifted dry owder, then let them harden, by drying in the Sun r Air, and place them on a great Rocket, as you sid the other Stars, and you will perceive them when he Rocket is at the height, fall like Bodies or Globes of Fire, in the manner as if real Stars were hooting or falling from the Sky; for by reason of Fire heir wetness or density, they cannot expand into the flame, which occasions them by the pressure of their This Weight to descend with greater Impetuosity, till they waste and vanish into Air, &c.

e the Another Sort of Stars that give great Reports in the Air, as if Armies were fighting.

Here you must observe to place fix, seven, or eight small Rockets on the Head of a great one, nd ap illed only with dry Powder, but indifferently ammed, and on the ends of them holes, being like prick'd through, place any of the forts of Stars, fifted prick'd through, place any of the forts of Stars, or a mixture, as your fancy leads you; and when the stars will take Fire, so that the Noise will of a feem to the Spectators as if it proceeded from them, prick because they will be seen on Fire before the Sound of the Reports can be heard.

To make Paste-board Mortars for Balloons.

These stately Prospects of Fire are to be carried into the Air by the force of Powder, by the help of Morears; and therefore the making of the Mortars are in the first place to be considered.

34 Of Artificial Fire works.

Take a Rowler of Wood, about 12 Inches Diameter, and three Foot and a half in Length, wet strong Paste-board, and rowl upon it as close as may be glewing the Paste-board between each Rowling; then being about five Inches thick, bind over it strong pitch'd Rope, though indifferent small: Then choak the Breech of it, which must be beyond the length of the Rowler, with a strong Cord, pitch or glue it over, that the Powder may not force its vent that way, and so when the Mortar is well dry'd, draw out the Rowler, and make it as even as can be; bore a Touch-hole two Inches from the Breech, that it may enter into the hollow of the Mortar, and set it by for use.

To make Balloons, the Rarity of Fire-works.

Take strong Paper or Paste-board, rowl it on a 12 Inch Rowler, neat as thick as 'tis long, then with a strong small Cord choke it at one end only, leaving a Port-fire, which is a Place to put in a Quill of Wild-fire, that will last till being shot out of the Mortar 'it comes to its height; then next to that put on an Ounce and a half of loofe Powder, and place in it as many small Rockets and Stars as it will hold; fo chook up the other end quite. may also put into it little quills of Wild-fire, then being closed up only a Port-fire remaining, which made of a Quill of Wild-fire, as is faid; or Stopple, to make which in the close of this Head I shall Inftruct you, Charge the Mortar, being fet floaping upwards with half a Pound of Corn-Powder, and it will by giving fire at the priming-holes, fend the Ballcon up into the Aira prodigious height, and when it comes to the dry Powder, that will break the Balloon; and then the Stars and Rockets in it taking Fire, will scatter abroad in various curious Figures, delightful to the Spectators; and as they are Cunningly placed, they will reprefent Crowns, Cyphilis, Characters, Dates of the Year, Oc.

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This curious Fire-work must be made in the Compolition Matter for filling mostly of corned Powder. outting before it when you fill the Cartoush or Case s much fine fifted Powder and Charcole as compoed for the Rocket, will carry it to its height; leave hole for the Port-fire in the choaking as big as a Goose-Quill will enter, filling it with Dust-powder and Charcole, and so close up the open end, by turning in the Paper or Paste-board corner-wise, either glewing or waxing it down.

Paste-board Guns to cast the Saucissons into the Air. how to make them.

To make these kind of Guns, Take a Rowler, Somewhat less than for the Balloon, rowl on it your Paste-board, and cord it over with strong Packthread, making their Youch-holes at the Bottom, because they must be placed upright on a Plank or Board. in a Row fixed into the Plank or Board in holes cut proportionable to them, and lashed fast to Staples above and beneath with strong Cords, and being charged with a quarter of a pound of Powder, fire by Match or otherwise, given to the Touch-hole underneath the Plank, when the Saucisson is lightly put in. with the Neck or Port fire downward, to that it may touch the Powder; and this will ferve for use a considerable time.

Saucissons for the Earth or Water, how to make them.

Make your Cartoushes or Cases about 9 Inches long, and an Inch in the Diameter of the Calliber, by rewling Paper or thin Paste-board on a wooden Rowler; choak the ends only, leaving at one end a Pal-

36 De Artificial Fire works.

a Passage to thrust in a Goose-Quill silled with Dust powder and Charcole well mixed, at a Port-sire, Glue them over, or use small Cord glued or pitched to strengthen the Case that it burst not unseasonably by the force of the Composition, with which you must fill them when you have choaked; only at the Port-sire end, the Composition being about 2 Inches, the same as the former, the rest corned Powder, having primed and fixed them on a Plank in a row, about a foot distance, lay a train of Stouple, and they will fire gradually, slying about on the Earth, or the Water, according as you place them, giving Reports like a Volley of Muskets.

This Stouple is useful for Trains, and Port-fire is no more than Cotton-wool well dressed in Water and Gun-powder dry'd in the Sun, or in a clean-fwept warm Oven, that it may come somewhat near Tinder, but more swift and siercer in its Fire

when it has taken.

Fire-Boxes, to make them.

Take a great Cartoush or Case made, as for the Balloon, croud it full of small Rockets or Serpents, with the choaked part downward, prime them with Stouple or Wild-fire; fix it firm on a Pole, make a priming Hole in the side towards the lower end, and run in a Quill of sine beaten Powder, and they will fly out (the upper end being left open) one by one as swift as may; or if you scatter loose Powder, they will fly out several together with a prodigeous Noise, and breaking, imitating a deal of Thunder.

Fire-Lances, bow to make them.

These are usually for running on the Water, making there a very pleasant Pass-time; their Cartoush or Cases are made like the small Rocket, with thin Paste-board glued and rowled up on a wooden Nowler, about 9 Inches long: If you would have hit fittie of port as y wood four of duft to the fhe

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carry a long fiery Tail on the Water, the Composition must be 2 Ounces of Charcole, half a pound of Brimstone, half a pound of Powder, and half a pound of Salt-petre, or proportionable for fo many as you make, bruised finely and sifted; but if you would have it burn bright like a Torch, put only four Ounces of Powder to the fore-named quantity of Brimstone and Salt-petre, without any Charcoledust, tying to each Line a Rod in the same Nature as to the Sky-Rocket; but not of that largeness; and they will float about a long time, making a strange shew in a dark Night, their ends being so placed on a Frame when you give fire, that they may leap out of themselves one, two or three, at a time, or as you defign them, by putting more or less Stouple for Port-fires; scatter a very small quantity of loose Powder underneath.

To make the Appearance of Trees and Fountains. of Fire.

This is done by placing many little Rockets on the Head of a great one, by passing their slender Rods through its largest Cartoush; and if they take fire whilft the Rocket is vigorously Ascending, they will spring up like Branches or fiery Trees; but if they go off just as the Rocket is spent, and Descending, they will appear like a Fountain of Fire.

Girandels or Fire-Wheels, bow to make them.

Take a Wheel of light Wood, like the Circle of a Spinning-wheel, on which the Band is placed; tie small Rockets round it in the Nature of a Band, so. fast, that they cannot fly off; and so Head to Tail, that the first fir'd when it bursts may give fire to the next, whose force will carry the Wheel (which must be placed on a strong Pin in the Axeltree) round so fast, That although but one Rocket go off at a time, it will feem all on fire, and so continue whilst all are gradually

38 Di Artificial Fire works.

gradually Spent; and this especially at the Angles of great Fireworks are very Ornamental.

Ground Rockets, and the best way of making Serpents.

The Mould of the Ground-Rocket may be made in-all Particulars like that for the Sky-Rocket, but less in Length and Gircumference, six, seven or eight Inches being a warrantable Length; rowl on the Cartoush or Case to a moderate thickness; choak it at one end, fill it, the Broach being in as the Sky-

rocket; with this Composition.

Put but an ounce of Charcole to a pound of Powder, and about half an ounce of Salt-petre, beat, mingle and fift them finely; put in about a quarter of an ounce between every Raming, till it is full within an Inch with corned Powder, Lightly Raming it, leaving only fo much room as may chook it at that end, cutting then off what hangs over, and leaving it with a picked end; being thus finished, prime it with a little wet Powder, and lay it a drying till you

dispose of it for your pass-time.

The Serpent is a kind of small Rocket; to make them therefore well, make a Case of strong white Paper, about six Inches and a half, the Rowler being about the Thickness of a small Arrow, it must have a Head and a Broach proportionable, being Rowled up hard past the Edge that turns over; choak it with a strong Pack-thread, and sill it with a Composition of six ounces of Powder to one of Charcole, both beaten finely, sisted and well mingled; put in a little and little at a time, and every time you put any in, Ram it down hard till within an Inchfull; then put in corned Powder, press it down gently, and with the end of your Rammer force sown the end that stands a little above; so that it may co-

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ver the Powder, and then Seal it down with Wax; prime with Dust-powder, and a little Flower of Brim-stone, and with your Match having a good. Coal on it, give fire as you fee occasion.

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Fiery Globes or Comets, bow to make them.

Take half a pound of Powder, two Ounces of Brimstone, an Ounce of Salt-petre, bruise these grofly, and wet them; Aqua-Vitæ and Oil of Petroleum, that they may be moulded like a Paste, that so they may be made up into Balls, as big as ordinary Wash-balls; then dry them very hard, and wrap them up in Cerecloths made of Brimstone, Rosin and Turpentine, in which make a little hole, and prime with Wild-fire: Put the Ball then into a Sling, and the Wild-fire being touched, throw it up as high as you can into the Air, and when the Body of the Ball fires, it will appear to the Beholders like a fiery Globe, with a Stream or Blaze like as if a Comet or Blazing Star were Ascending or Descending, according to its height or Declination.

To try the Goodness of Powder, that you may know its Strength.

Observe whether it be well dry'd and corned. which you have taken notice of, and approv'd, lay a few Corns scattered on a Sheet of white Paper, and fire them; then if they leave a black and footy mark behind them, with a noisome Smell, and finge the Paper, then is that Powder gross and earthy, and will fail your expectation, if you use it in your Fire-works; but if in the sprinkling and firing there appear few or no Marks, or those of a clear blewish Colour, then it is airy and light, well made, full of Fire, and fit for Service; half a Pound of it having more Strength than a Pound of the other.

40 Of Artificial Fire works.

And thus Reader, have I given you an Infight into the making Fire-works, &c. Such as are very pleasing, and now used on Occasions in all Christian Countries, in making which, by a little Practice, you may soon be perfect.

St. George and the Dragon fighting, &c. Also Mermaids, Whales, &c.

Form your Figures of Paste-board, strengthen'd with Wicker, small Sticks within pasted to the Board to keep it hollow, tight and bearing out; and place a hollow Trunk in the Body for a large Line to pass through, and likewise for a smaller to draw them too and from each other, that they may the better seem in Combats, which must be fastened at the Dragons Breast, and let one end of the Cord be tied, which must pass through the Body of St. George, turning about a Pully at the other end, and fastning it to his Back, and tie another at his Breast, which must pass through the Body of the Dragon, or a Trunk at his Back; and fo returning about a Pully at that end, it must be drawn streight, and fastened to the Dragons Tail; so that as you turn that Wheel, they will run furiously at each other, and as you please, you may make them retreat and meet again, foaping the Line to make them flip the easier. At the Dragon's Tail, in his Mouth and Eyes, you must fix Serpents or small Rockets, which being fired at their fetting out, will cause a dreadful fight in a dark Night.

Thus a Mermaid or a Whale may be made to float on the Water, but then the Figure must be fixed on a convenient piece of Board, with two fire Wheels fixed on an Axle, run through the poised part of the Body, by the force of which it moves in a wift Line in the Water; the Wheels must have fittle Rockets or Serpents tied round them, as the Cirrondel before mentioned.

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Having made the Figure of Paste-board to the proper form of a Dragon with Paste-board and Wicker, as has been taught before, make a hollow Trunk through the Body of it for a great Line to pass through, and fasten small Lines to draw it too and from you, at the Breast and Tail of the Drake; put into the Eyes, Mouth and Tail of it Rockets fo fixed, that they cannot fly out, as you may put Wildfire rowled up hard and long in Paper: Then fire that in the Eyes and Mouth first, and draw it with Pullies from one end of the Line to the other, then that in the Tail, and draw it back, and it will feem as retreating from Danger, with Fire coming out of the Belly of it.

A Burning Castle and Dragon on the Water.

Make the Dragon of Paste-board and Wicker, as before, the bottom of the Castle of light Wood, and the Work of Paste-board with Paper, Turrets and Battlements of a Foot height, in the Portal of the Castle, fasten a Line, that it may come level with the Water, and therefore some part of the Castle must be under Water: This Line must be fastened to the other side of the Water, or in the Water, if it be broad, and admit not the former on a Pole or Stake knocked down, and pass in a hollow Trunk through the Belly of a Dragon, that being in the Castle, may upon firing the Rockets, placed advantageously in the Tail, Eyes and Mouth, come out of the Castle, and move on the Line; to meet which, you may at the other end of the Line, in the fame manner, prepare a Neptune in a Chariot, or riding on a Sea-horse, with a burning Trident, or Whate with a Rocket or Wild-fire in his Mouth; which if it lie low, by spouting out, will make the Water fly about, as if it spouted Fire and Water out

42 Af Artificial Fire works:

out of his Mouth; then by a Train-fire, some little Paste-board Guns in the Castle, which if the Composition of the Train be made of Wild-fire, or Stouple, will go off by degrees, and coming to a Train of Brimstone, Rosin and Powder, make the whole frame expire in a terrible blaze.

A Wheel of Fire-works to run backwards and forwards on the Ground.

Procure a pair of Wheels, being of light Wood, like that of a Spinning-Wheel, fasten them on a Axel-tree, and place Rockets round them, as bands are fastened round a Wheel, and so primed at Tail and Head, that when one Expires, the other may take fire, half of them placed with their Heads and Tails the contrary way to the first: So that when the first are spent, and the Wheels have run on plain Ground, a great way, the other firing, will turn them again, and bring them to the Place where they first set out.

A Fire that will burn in the Water, or Water-Ball

Sow up a Case of Canvass like that of a Foot-ball, but lesser, pitch or glue it over; then take one Pound of Powder, eight ounces of Roch-Alom, four ounces of live Sulphur, two ounces of Camphire; Linseed-Oil, and that of Petroleum, each an ounce and half, an ounce of Oil of Spike, with two ounces of Colophonium bruis'd, and well mixed together, and stuff the Ball hard with it; with a Stick pitch or glue it over again, binding it with Marline on Pitch, on that leave two Vents or Portsires, set it on fire, trundle it on the Water, and it will burn under it.

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d The exactest Military Discipline for the Exercise of Foot and Horse, as in Use at this Day, at Home and Abroad, in all the Words of Command, &c.

O be well disciplin'd and train'd up in Military Affairs, has been the Study and Pride of all Warlike Nations, whereby they have acquired to themselves Fame and Riches, by being able to defend themfelves against Invaders, and gain Conquests Abroad; but above all others, for many hundred Years past, the English have excelled in this, being much helped by their natural Courage. But fince I only at this time intended to write to the Learner, to train him up in his Exercise, by which means his own Industry and Experience may lead him forth to greater Matters. I shall not enumerate the many brave Men, who from mean Conditions have rais'd themselves by Arms, to the highest pitch of Honour and Preferment; but shew our Youth what they are to do and observe in their first Training, as to the Words of Command, to order their Arms in their various Postures with Dexterity.

The Words of Command in the Exercise of the. Musquet, and how they are to be Observed and Performed.

When you enter on this Exercise, be sure to keep your Footing firm, your Feet at a moderate distance; that at all times, and on all occasions, you may return our full Strength. Observe moreover to keep the light heel firm, and fet the Right-foot steady, and then attend to the Words of Command, which

you

you are summoned to do by this Expression of the Commander, viz. Musketeers, have a Care of the Exercise, and carry your Arms well. After which, the proper Words of Command follow in their Order.

1. Lay your Right-Hand on your Musket.

Here the Lock being uppermost turn the Barrel towards you, and extending your Fingers, lay your Right-hand directly behind the Lock; so close the Butt-end to your Shoulder, suffering the Musket to be in all Parts of an equal height.

2. Poise your Musket.

In doing this, you must hold it with a hard Grasp, facing to the Right, and turning with a quick Motion on your Lest-heel, your Musket kept directly before you the height of it, between your Shoulders; your right Elbow on your Side, keeping your Feet at a moderate Distance, that when you turn about, your lest Toe may stand to the Front, and your right Toe as you Face to the Lest; let your Lest-heel be against the middle of your right Foot; and by such means you will be in a resting Posture.

3. Rest your Musket.

Here slide your Musket down to your Left-hand, bearing your Arm as low as possible without stooping, and so receive your Musket where the Scowerer enters into the Stock, touching with your Hand no part of the Barrel, keeping it about half a Foot from your side sloaping, your Right-hand, with your Fingers extended, being behind the Lock.

4. Cock your Musket:

Place the right Thumb, and your Finger behind the Trigger, so clap your Musket against your Thigh and Cock; keeping it that it slip not your Thumb, now removed steady on the Head of the Cock.

Bring it with a very swift Motion strait Refore you, to recover your Left-hand even with your Mouth,

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Mouth, about half a Foot distance from it, not suffering your Musket to sink, nor stooping your Body, observing in bringing up the Musket before, which is a recovering, that the right Heel be brought to the left Instep, your Musket being perpendicular.

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6. Prefent.

Here fall back with your Right Leg, that the middle of the Right-foot may be against the Left-heel; cause the Butt-end to rise to your Shoulder, fixing it sirm, and keep your Right-Elbow even with the height of the Piece, being in a Readiness with the fourth Finger of your Right-hand to pull the Trigger, bowing the Left-knee, keeping the Right sirm and steady, and so level your Musket Breast high.

7. Fire.

Keep here an exact Motion in drawing the Trigger, every one drawing at once, so that the whole Fire of a Company or Batallion may be as of one Report: Keep your Body steady, and your Musket hard against your Shoulder after you have fired, till the next Word of Command is given, viz.

8. Recover your Arms.

Here let the Butt-end fink in both your Hands, and bringing it strait before you, keep your Right-hand under the Cock, and the Left even with your Mouth.

9. Half bend your Musket.

Fall back with your Right-leg, and let the Musket at once rest, placing the Right-thumb upon the Cock, and the Fingers of that Hand behind the Trigger; then closing it to your Thigh, half bend the Cock, and keep it rested with your Fingers extended.

10. Clean the Pan.

Dothis with the Ball of your Thumb, pressed into the Pan, keeping your Fingers of the Right-hand behind the Lock.

11. Han-

II. Handle your Primer.

Take the little end between your Finger and Thumb, turning the other end to the back of your Hand, your Arm bearing backwards.

12. Prime.

Level your Piece, and strike your bruised powder into the Pan half full, or somewhat more, keeping your Lest Toe to the Front.

13. Shut your Pan.

This do by using your two first Fingers, casting back your Primer, and bringing up your Right-heel to your Left-instep, your Musker strait up before you, as in the Recovery, with the Barrel towards you; do it with a quick Motion with the Thumb of your Right-hand on the top of the Steel, levelling your Left with your Mouth.

14. Blow off the loofe Corns.

Bring your Mouth within four Inches of the Pan, give a strong Blast without declining your Head, casting out your Arm, and suffering the Musket to sink from its former Posture.

15. Cast about and Charge.

Advance your Right-leg, turn the Barrel of your Musket downwards, bring it to your Left-side a little backward, with your Left-hand, not touching the Barrel with your Fingers; place the Toes of your right Foot to the Front, and the Right-heel against the middle of the Left-soot, ballancing your Musket in the Left-hand, the Muzzle to the proper Front, in an equal height, half a Foot from you, joining your Right-hand to the Muzzle, your Thumb extended to the side of the Barrel.

16. Handle your Charger.

Gripe fast your Bandilier or Charger, hold it even with the Muzzle of the Musker underneath, about an Inch distant.

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17. Open your Charger with your Teeth.

In this Case, bring it up to your Mouth-without declining your Head, then bring your Charger within an Inch of your Muzzle, about an Inch from it, covering your Chargers Mouth with the Ball of your Tumb.

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18. Charge with Powder.

Put the Powder into the Barrel with a quick Motion, and put the Charger underneath as before.

19. Draw forth your Scowerer.

In this let fall your Charger, and upon turning your Hand, draw forth your Scowerer at three Motions, holding it level the height of your Forehead, with an extended Arm, as if you designed to dart it.

20. Shorten it to an Inch.

Turn the great End of your Scowerer towards you, finking it till within an Inch of your Hand, self it fomewhat below your Right-breast, bearing forward a little.

21. Charge with Bullet.

Take the Bullet out of your Mouth with your Right-hand, put it into the Barrel with a fwift Motion, holding the big end of your Scowerer near the Muzzle of your Musket.

22. Ram down Powder and Ball.

Grasp full with your Thumb and Fore-finger from the Muzzle, your Thumb on the top of the Scowerer, reserving a handful in your Hand.

23. Withdraw your Scowerer.

Your Hand, Thumb and Fore-finger turned towards the Muzzle, clear your Scowerer at three Motions, and shold it up even with your Forehead, extending your Arm as if you were about to dart it.

24. Shorten it to a Handful.

Turn the Butt-end of your Scowerer towards you; fink it till within an Inch of the End, letting it rest against your Body a little below your Right-breast, the Scowerer sloping.

25. Return your Scowerer.

Put it up in its proper Place; grasp the Muzzle of your Musker with your Right-hand, extending your Thumb upon the Scowerer, keep it half a foot distant from your Side.

26. Poise your Musket.

Here before you bring up your Musket with your Left-hand, grasp it under the Cock with your Right falling with your Right-leg to your Left: Keep it Poised against your Nose, and when faced to the Front, let your Right-elbow rest upon your Body.

27. Shoulder your Musket.

In this do as has been taught in the like Case be-

fore.

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28. Order your Musket.

Sink a little your Right-hand, and take hold on the Stock on the top of the Scowerer with your Left-hand, then suffer that Hand to sink, and take hold on the Muzzle with the Right-hand, letting the Butt-end easily sink near the Ground; then let it after a little Pause come down: As many as Exercise grounding them together, then close to the Right-foot, and place the Butt-end about the middle of it your Right-hand an Inch below the Muzzle, the Lock being outward.

29. Lay down your Musket.

Turning it with the back upwards, step forwards with your Lest-leg, so with your Right-hand, place it on the Ground, that it may lye with the rest in a streight Line: This some call grounding a Musket.

30. Quit your Musket.

Here stand upright with a quick Motion, rifing with a falling-back of your Left-leg to your Right.

31. Handle your Musket.

With your Left-leg step forward, and lay you Right-hand on the Muzzle.

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32. Order your Musket.

Raise the Muzzle, and fall back with your Leftg to your Right, turning the Lock outwards by

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And thus much for the Exercise of the Musket, hich may be much advantageous to young Trainers, ho have occasion to be called or sent out upon Duty the City or Country, and Country Militia of the rained Bands, or for any other who is desirous to be nowing in, and entring upon Military Affairs.

Of the Match-Lock.

These Locks were formerly in more use than ire-Locks, and at this Day they are sometimes ixed among them; wherefore I shall speak somewhat relating to the Words of Command, that seem o differ from the Fire-Lock, viz.

2. Lay down your Match.

2. Handle your Match.

3. Blow your Match.

4. Cock and try your Match.

5. Return your Match.

All these chiefly consist in keeping your Match in rder, with a good hard and well lighted Coal, sasting it on Command advantageous in your Skrew, lowing the Coal, and so by pulling the Trigger, ying your Pan with salse Flashes, laying it down at command, and by the same Order taking it up again; nortning it to the Pan, that it may give true Fire, and upon siring, to return it, and recover the Coal, it be shattered by the force of the Powder. You sulf observe also to keep your Match dry, that on Occasion you may not be disappointed.

And this in brief is all materially relating to the datch-Look; the other Postures of the Musket are lready described, being sufficient to direct the Exticise, yet seeing many lay much stresson the Beat of Drum, Take that along with you, as it relates to

C Exercise

Exercise, and so I shall take Leave of the Foot, and make a visit to the Horse.

Exercise by Beat of Drum, relating to the Foot.

There are usually observed in this six Points, which are called Points of War, and are said to be Semi vocal; because by them the Soldiers understand what is to be done, and can distinguish their Duny and Exercise; and of these in their Order.

gether to their Arms, or upon any other Occasion as to hear Proclamation, or receive Directions, or from the Officers, and are not without leave to ramble, especially in time of War, beyond the hearing of it, under great Penalties.

2. The Troop. When the Soldiers hear this, the must Advance their Muskets, and close their Rank and Files to order, following their Leaders or Commanders to the Place of Rendezvous, Quarters of elsewhere.

3. The March. When you hear this, you mult betake you to your open Orders in Ranks, Should your Musket; and so as the Drum beats, you March flower or quicker.

proportionable or due Distance, when you are me prepare for Battle or Skirmish; and to see every thing be in order that may turn to advantage.

or Signal to Charge the Enemy, and is beat in the beginning of the Fight to animate the Soldien Courage.

fave a total Rout, or sometimes when an Enemy you suppose stronger than your self advances toward you to engage, but by Retreating you avoid him.

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There are two more Things on the Drum, some-

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Garrisons, to give Notice to the Soldiers and Inhabitants when they ought to repair to their Quarters and Houses.

2. Revally. Is to let them know when it is time to rife in the Morning, and attend on their Duty also. In Garrisons, to let the People know when its safe to go abroad, the out Scouts being relieved.

The Exercise of Horse in Troops or Squadrons, &c.

The Exercise of the Horse is various from that of the Foot, and therefore that I may not be wanting in what is necessary to the young Soldier in their Exercising in the Country Troops, or those that may enter the present Service Abroad, I shall endeavour to give the Words of Command proper with their Explanation.

And first, when a Troop or Squadron is drawn out to Exercise, I suppose their Carbines and Pistols loaded, and the Corporals passing through the Ranks to see they are all ready, upon which observe the chief Officers Commands Silence, and gives the fol-

lowing Words of Command, viz.

1. Lay your Right-hands on your Swords.

2. Draw your Swords.

3. Put your Swords in your Bridle-hand.

4. Lay your Hands on your Pistols.
5. Hold up your Hands, Give Fire.

When you have fired, let not your Pistol-hand fink till the next Word of Command, viz.

6. Return your Pistols.

And this you must observe in Firing to the Left and Right, Then,

7. Day your Hands on your Carbines.

8. Advance your Carbines.

9. Cock your Carbines. Fire.

10. Let fall your Carbines.

C 3

11. Take

11. Take your Swords from your Bridle-hands.

These must be done with a swift and exact Motion, all as near as may be doing it at one and the fame time.

If a Squadron of Horse is to Wheel to the Right, the Right-hand Man must not close to the Left, as has in ancient times been; for that many times disorders the Rank; but you must keep your Ground, suffering the Left to come about whilst you only turn your Horse's Head, observing your Lesthand-man.

To close File.

The Right Wing File fland.

I. Close your Files.

2. To the Right.

3. To the Left as you were.

4. To the Left-wing and stand. 5. To the Left by Files close the Squadren.

6. To the Right as you were.

7. The Right and Left-Wing File: stand.

8. By half Ranks, close Files to the Right and Left. And by closing Files you may cleave or divide the Squadron.

The Order of Closing Ranks.

1. File-leader stand.
2. By Ranks close the Or open on the Front, Or the first Distances.

Squadron to the Front) And so be cautious in 3. On the Front as you observing each Motion. mere.

How doubling Ranks must be Order'd.

I. By half Files to the Right, double your Ranks to the Front.

2. File-leaders, advance your Ranks, File-leaders take your Ground.

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And in this manner Command likewise to the Left, the Order being one and the same in the Words of Command. [Again.]

3. The first half Files stand.

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ft.

4. By half File-leaders on the Left-Wing, double your Rank to the Front.

Now to reduce this, take the following Method, 1. Right-Wing half Ranks, advance your Ranks.

2. Half File-leaders take your Ground.

3. The first half File stand.

4. By half File-leaders on the Right and Left-wings, double your Ranks to the Front, Carocoling to the Right and Left. Then the last half File stand, and the first half File by Carocol in the Right and Left on the Wings; then double your Ranks on the Rear.

Here observe the first File must open the half Rank to the Right and Left, the first half File by Carocol. Then

To the Right and Left double your Ranks to the Rear. Here observe the last half File must open the half

Rank to the Right and Left.

As for the Word Carocol, it fignifies no more when you Wheel by it, than that it is made by the depth of the Flank of the Squadron, by which Order, not the Files, but the Ranks make the Motion.

There is another Word which some may not well understand at the first setting out, which is called Controv rsion, and this in Wheeling is performed by the Front of the Squadron, so that whilst the Rank makes the Motion, the File remains.

Instructions for Wheeling, with the proper Words of Command.

When the Word is given, viz. To the Right by Conversion, understand that you must close your Rightleg to the Horse, your Knee touching that of your Right-hand-mans, and in like manner observe in the

Word of Command to the Left; as when it is fail Close to the Left, then must the Leg be closed.

By half Ranks and Conversion, divide the Squa

dron into two Troops.

If you would reduce the Squadron, the Worda Command is.

By Conversion, The Squadron into one Troop, else the Left-wing advance by Conversion.

When you Wheel by Carocol, observe the Work

of Command as follows.

The Right-Wing to the Left by Carocol, Face about the Rear: Or it may be done by half Ranks in the manner.

By Quarter Ranks, and by Carocol, divide the

Squadron into three Troops.

Then if you would reduce them, order Quarta Ranks and Troops into Squadrons.

If the Volt, Face or facing about be required

observe thus,

Face about to the Right: Face to the Right by Controversion; Face about by Carocol to the Right: Fau about to the Left by half Files: Face about to the Right and Left.

And thus much may serve for Wheeling.

The Manner of Filing off.

In this Case observe, To File by Ranks on the Right-Wing, from the Squadron,

File off by Ranks, on the Left-wing, from the Squa

dron on the Right.

File off by three Files from the Squadron, the Left wing: And this is found the most Expedient way though some have used to File off by Ranks.

In Hay, what Orders is to be considered in drawing up.

Do this by half Ranks to the Right: To the Right and Left drawing in Hay: To the Brent. And if it require

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nuires to be reduced again, then proceed by Carocol, viz.

To the Right and Left as you were.

By half Ranks, and by Carocol to the Right and Left.

Then draw up in Hay to the Rear. In Reduction the Command is;

To the Front as you were.

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By half Ranks to the Right and Left, and draw up in Hay.

Reduction by Carocol.

To the Right draw up in Hay.

Reduction by Carocol.

To the Left as you were.

Of Doublings.

Doublings are very useful, especially in strengthning any Party, that needs Succour in the Battle; and is to be noted under these general Heads.

1. Doubling of Length, Front and Rear.

2. Doubling of Depth, both Flanks.

But in the particular, they are numbred fix, that is to fay, first of Ranks, when every Rank doubles into the odd, and if it so fall out, that the odd Ranks are to double, then must the Body Face to the Rear, without any Word of Command expected.

3. Half-Files. Here they are held to double when

4. Bringers the Rear is doubled into the

Front. пр.,

s. In doubling the Rear observe it done when the half Files double the Rear.

6. Here take Notice that doubling of half Ranks must be by one Rank doubling the other.

C 4

The

The Noble Science of Defence, in all its
Useful Particulars, for Defending
and Offending, with the Rapier of
final Sword; after the exactest Me
thod now in Use.

HIS Science, if well understood, as to the fining and using it, is not only a noble Exercise, but of great Importance to the saving our Lives on emergent Occasions, if it extend not to Vain-glory and Presumption, by too much relying on our Skill, to carry us into Quarrels, which we may reasonably, and without loss of Honour or Reputation avoid. Wherefore I have thought it convenient to lay down such Rules as may enable the Learner to proceed in the Practice.

The first Thing to be considered in this Case, is the Sword it self, understanding only in this the small Sword or Rapier, which is divided into two

Parts, viz. The Hilt and the Blade.

The Hilt is again divided into three Parts, via The Pommel or Ball at the far end, sometimes Round and sometimes Oval in Shape. This keeps the Hilt fast, by being well riveted, and by its poise makes the Sword well mounted, or light before the Hand. The next is that part on which you grasp your Hand, commonly called the Handle: And then the Shell, which is that part of the Hilt next the Blade. to preserve your Hand (if you are any thing weary in managing it) from a Thrust or Blow.

The Blade is divided into two Parts only. The first next to the Hilt, being termed the strong Part or Fort. The other, which is the Extream, is termed the Feeble, or they are otherwise termed the Prime and the Second. The strong Fort or Prime

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of the Blade, is measured from the Shell to the middle of the Blade, and being the strongest, is made note of in Parrying, or to put by Thrusts or Blows. The Feeble, weak or second part, is accounted from the Middle to the Point, and is properly made note of in Offending or giving Thrusts or Blows; and thus much may serve for the Description of the Sword: Now I proceed to the Explanation of the Terms, sit to be known by a Practitioner.

A Guard.

This is a proper Posture you must place your self in, for the better defending your self from the Thrusts or Blows of those you Fence with, or defend your self from.

To Parie.

Observe that this is to put by a Blow or Thrust, that it may not touch you, but be cast off without hurt or danger.

Duart.

Here you must hold the Nails of your Swordhand upwards, with a steady Arm; and then it is said to be held in Quart.

Terce.

This is the contrary to the former, for the Nails of your Hand must be held downwards; and then the Sword is held in Terce.

Within the Sword.

This is that part of your Body, (which having your Right-fide towards your Adversary) is between your Sword and Left-Breast.

Without the Sword.

This is the part of the Body, that (when you hold your Sword towards your Left-fide) is above it the Bradth of your Body.

C 2

The Approach or Advance.

This is done, when being out of your Adversaries reach, or at a pretty distance from him; you make your Approach or Advance towards him.

To Retire or Retreat.

This is when you are within your Adversarie reach, that you get out of it by stepping or jumping backwards; which you must observe to do on a strait Line.

Measure.

This is only a distance between you and you Adversary, which must be cautiously and exactly observed when he is Thrusting at you; so that you may be without his measure or reach, and that taking the Advantage of this, it may be so, that when you Thrust your Thrusts may be home.

To break Measure.

Observe here, just as your Adversary is Thrusting at you, at his first Elonge, he may come shorted you, because you are, or escape out of his Measure, or reach, and so break his Measure, of which I shall say somewhat more hereafter.

To Elonge.

This is to stretch forward your Right-arm and Leg, and keep a close Left-foot; and this you do when you give in a Thrust, and when you do it, you are said to make an Elonge.

Respost.

This is when you give in a Thrust before you recover your Body, receiving a Thrust after your Adversary hath Parried your Sword. Then is it said to be a Thrust on the Respost or back of the Parade, which is the surest and safest you can give.

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This is a dodging or deceiving your Adversary, making him believe you give back in earnest, and make an offer to Thrust in one Place when you really design to do it in another.

Beating.

This is no other than striking the Feeble of your Adversaries Sword with the Edge and Fort of yours, either with your Right-hand only, or the help of your Left, joyned to the Blade, about a foot from the Hilt; and so you will cause the Beat to have the greater Spring or Force.

Battery.

The Difference from Beating in this, is only Striking with the Edge of the Feeble, upon the Edge of the Feeble of your Adversaries Sword, though Beating secures his Sword a great deal better than Battery.

Binding.

This Method is taken to fecure your Adversaries Sword, with eight or ten Inches of yours, upon five or fix Inches of his.

Caveating or Disengaging.

Here you must, if you can, slip your Adversaries Sword, when you perceive him about to bind or secure yours.

To take-time.

In taking Time, you must observe never to Thrust but when you see a fair Opportunity, or otherwise it is the Thrusting at your Adversary when he is making the Feint, or the slipping of him, when you perceive him about to Bind or Beat your Sword.

Counter

Counter Temps.

This is when you Thrust without a good Opportunity, or when you Thrust, at the same time your Adversary do's the like.

Quarting on the straight Line.

This is done by carrying your Head and Shoulders very much back from your Adversaries Sword, and are giving in a Thrust within it, and that each of you at that time receive a Thrust.

Quarting of the straight Line, called de Quarting.

Here you must observe to throw in your Lestfoot, and Body backwards off the straight Line, towards your Adversary, keeping your Right-foot firm.

Volting:

This is a leaping by your Adversaries Left-side quite out of his reach or measure, which on many

emergent Occasions is very proper.

These Terms a Practitioner must be knowing in before he proceeds to the other Lessons, or Adventures on sharp, especially on earnest; from whence I proceed to the next thing materially to be considered, which is the

Holding of the Sword.

In doing this according to Art, and to the most advantage, hold your Thumb on the broad side of the Handle, and your Fingers quite round it; hold it in this manner firm and fast; so that your Adversary, with the least suddain beat or twist, may not force it out of your Hand, which the hazard in holding it loosely may occasion to your Dantage.

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Of keeping a Guard.

The Guards are in general but two; the one in Quart and the other in Terce; but again the Quart Guard is subdivided into two. viz. The Quart with the straight Point, and the Quart with the Point

floaping near to the Ground.

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The Terce is so likewise divided, that is, the Terce with the Point higher than the Hilt, and the Terce with the Point lower than the Hilt. There is yet another Guard, that requires you to hold your Sword with both your Hands; and of these in their Order.

Of the Quart-Guard, with the Point Straight.

You have two Ways with this Guard to defend your felf, either by Parrying or using Contraries to what your Adversary plays, as I shall more fully shew you when I come to discourse of the five Parades; however, here observe in the straight Guard. which is most in use, to keep a thin Body, which is done by shewing your Right-fide to your Adversary, managing your Feet in a straight Line from him; fo that for your Right he cannot see your Left-leg, yet fet them not too wide, for that will make your Elong the shorter; nor too close, for that will hinder the firmness of standing; and let the Point of your Right-foot be turned somewhat outwards from the ftraight Line, but the broad fide of your Left must look towards your Adversary. You are also to fink with your Thighs your Left-knee, a little more bent than your Right, which may be done by your leaning somewhat back on your Left-thigh; when you present your Sword, you must hold it with your Nails upwards, as has been directed in Quart. The Hilt of your Sword must be as high as your Rightpap, keeping your Arm a little bent, for the better and easier pursuing your Adversary; or for the quicker

quicker giving in a Thrust: The Point must be towards your Adversaries Right-side, two or three Inches lower than the Hilt, your Lest-hand held up as high as your Lest-ear, about half a Foot from it, the Palm directly against your Adversaries Face, your Fingers pointing as it were towards him.

The Quart Guard, with the sloping Point.

In this Guard you must stand much straighter than in the former, the Point of your Sword sloping within half a Foot of the Ground, your Hilt as low as your Waste, your Arm bended, and the Nails of your Sword-hand between Terce and Quart; here you are also to make use of your Lest-hand, and therefore the more readily to do it, you must advance your Lest-shoulder almost as far forward as your Right, keeping your Belly in as much as may be; so that it stands well, and your Breast out, your Lest-hand as high as the side of your Head, though about half a Foot from it. This is a very open Guard, yet to those that know not how to pursue it, it is much surprizing. And you may pursue this;

First, by raising up or gathering your Adversaries

Sword.

Secondly, by striking at his Sword, and making half Thrusts at the Body, by which he will be doubtful when you intend to give in your Thrust, and finding an Opportunity give it home, and ever when you pursue this Guard, let your Lest hand be in a Readiness to Parrie your Opponent's Thrust, if he Thrust just as you are Thrusting, which is the main Defence on this Guard.

Thirdly, you may give a stroak at his Lest-hand, after you give a beat at his Sword, and see if by so doing, you can force him to betake himself to ano-

ther Guard.

Fourthly, you may Volt, and in your fo doing, give him the Thrust, which being clearly done, will mainly surprize him.

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The Terce Guard, with the Point higher than the Hilt.

In this you must hold the Nails of your Sword-hand downwards, as in Terce, and your Hand lower than in the Quart-guard with a straight Point, presenting the Point of your Sword towards your Adversaries Lest-shoulder; if he be a tall Man, but if short, then to his Lest-Eye, keeping your Arm somewhat bent, for the better pursuing: Lean therefore a little forward with your Body, and make use of your Lest-hand for a Parade, holding it somewhat lower than in the former Guard. The rest of your Body being kept, as in the Quart-Guard, with the straight Point.

This Guard may be pursued either with Striking, Binding, Volting, or Passing, for a Feint on this Guard will signific little or nothing if your Adversary understand it, for as in no Guard, he is to answer Feints, least of all in this, the Right Defence being to secure your self without your Sword, which is done by presenting your Sword to the Lest-shoulder of your Adversary, or as said, his Eye, so that your

Body be quite covered without your Sword.

The Terce Guard, with the Point lower than the Hilt.

Here you must in this bow your Head, holding up your Arm high, so that if you come to give a Thrust, your Head may be, as it were, under it, your Nails being in Quart till you make your Thrust, and then change them into Terce; your Feet must be kept at their due Distance, and not as at a full Elong; your Sword must be presented towards your Adversaries Lest-side, and you must make use of your Lest-hand for the Parade, and it is to be pursued and defended, as the foregoing Terce-Guard, only in defending it, you

you must not make so much use of your Lest-hand, but more of your Sword.

The Guard of both Hands.

This is a Guard, that I find not any proper Name for, though it is sometimes used as very necessary, however, as to the holding your Sword in this Guard, keep your Body exactly in the Posture of the Quart-Guard with the straight Point, but join your Left. hand to your Sword, about eight or ten Inches from the Hilt, the Blade being held between your foremost Finger and Thumb, secure your self within your Sword, as foon as you prefent it, viz. Present the Point towards your Adversaries Rightthigh, with your Point sloping towards the Ground a little; for to pursue this Guard, you must endeavour to take away your Adversaries Left-hand, by friking at it, and immediately after the froke, proffer a Thrust at his Body, that he may be doubtful when you really intend to give in your Thrust; and indeed the pursuit is much like that of the Quart-Guard, with the floping Point, and thus much for the five forts of Guards.

Of the several Parades.

The Parades are generally Two, but are subdivided as the Guard, and those two are the Parade in Quart, and the Parade in Terce, which are as is said, divided again into the Parade in Quart, with the Point a little higher than the Hilt. The Parade in Quart, with the Point sloping towards your Adversaries Right-thigh, and as though without it.

2. The Parade in Terce, with the Point a little higher than the Hilt, and the Parade in Terce, with the Point sloping towards your Adversaries Thigh on the Left-side.

There is yet another Parade of some use, and used by many Fencing Masters, which may be properly terme ever what Parad with than prope

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termed a Counter-Caveating Parade; by reason what ever Lesson your Adversary makes use of, or upon what side soever he Thrusts, if you make use of this Parade, as you ought, you will undoubtedly meet with his Sword, and the easier cross his Purpose, than by any of these former; and of these I shall give proper Directions.

1. The Quart-parade, or the Parade within the Sword, is so called, because in putting by the Thrust, you do it on the inside your Sword, or on that side

the Nails of your Hand are next.

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2. The next is called the Terce Parade, or the Parade without the Sword; for here, contrary to the former, you put by the Thrust upon that side which is without the Sword, and as the other is termed the Quart, for as much as it is within your Sword, or on that side your Nails look to; so this is called Terce, because it is without your Sword, or on that side the back of your Hand is to. Observe a little more, viz. when you are to hold your Hand or Nails in Terce, that you hold your Nails quite downward; And now to Parrie these Five several Ways.

You must do the first Parade in Quart, with the Point somewhat higher than the Hilt, viz. When you are standing to your Guard, if your Adversary offers to give a home Thrust on that side his Sword lieth, which I presume to be within your Sword, without disengaging, and is the simplest and plainest Thrust that can be given with the small Sword; yet frequently it surprizes a Man, I say, when so it is, that when you perceive your Adversary offer to give a home Thrust, which observe by keeping your Eye steady on the Hilt-of his Sword, you must then immediately turn your Wrist with so small a Motion of the Arm, that it can scarcely be perceived, to your Lest-side; and by that means you may put by his Sword with the Fort of yours upon the Lest-side,

keepingthe Point of your Sword after the Parade towards his Right-shoulder; you may in putting by your Adversary's Sword, use a little beat or spring towards the Ground, by which you will more certainly disappoint him, immediately bringing your Sword to its right Posture again, and by this way of Parrying, you may have the luck to Spring or Beat your Adversary's Sword out of his Hand.

The fecond Parade in Quart is with the Point sloping towards your Adversaries Right-thigh, and

as tho' without it, in this manner.

When you perceive your Adversary is thrusting with your Sword, turn the Nails of your Swordhand in Quart, with a full stretch'd Arm, and your Hand as high as your Face, and when you do this, slope your Point to the lowness of your Adversaries Thigh; and by that means, with the Fort of your Sword, on the Feeble of his, put by his Thrust, always observing to Parrie with the Fort of your Sword, and not the Feeble, lest your Adversary having the stronger Arm, force upon you the Thrust in spite of all you can do.

The first Parade in Terce, or without the Sword, the Point a little higher than the Hilt, must be thus managed, viz. Perceiving your Adversary giving in the Thrust without your Sword; take notice immediately to turn your Wrist with some small Motion of the Arm, as in the first Parrie in Quart, till your Nails be in Terce, and so Parrie his Thrust, remembring in this to keep the Point of your Sword, after you have Parried him towards your Adversaries Lest shoulder, as in the first Parade in Quart, you are to

keep it towards his Right.

This Parade is most effectually done with a Spring, to put by the Sword, or gain an Advantage of disarming your Adversary.

The fecond Parade in Terce, is called that within the Sword, bearing a floping Point towards your Advertaries

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Adversaries Thigh, and as though within it. This observe to do when you perceive your Adversary giving in his Thrust, without, or below your Sword, as it were at your Arm-pit, immediately letting the point of your Sword sink as low as his Thigh, turning your Nails quite round to your Right-side, until they are from you, keeping your Hand as high as your Head, and so put by the Thrust on your Rightside; and when you are Parading, let your Head be close, as if it were under your Arm; and this preferves your Face from your Adversaries scattering or Counter-Temps Thrusts.

Thus having shewn you the Defensive-part, I shall now proceed to the Offensive, or how you may offend your Adversary when Necessity requires it; but before I directly enter upon it, let me speak something of the Counter-caveating Parade; though some there are who resule to use it, yet it is the

fafest of all.

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The Counter Caveating Parade, &c.

When you observe your Adversary's Thrust coming home within your Sword, then immediately flope your Point, and bring it up again with a quick Motion on the other side of your Adversary's, and Parrie his Thrust without your Sword, that he intended to give within your Sword, holding your Nails neither in Terce nor in Quart, but so hold them, as when you presented your Sword; and observe farther to do this, Parade with a Spring, and if you perceive he is about to give in his Thrust without your Sword, instantly slope your Point, and bring it up again with a quick Motion upon the infide of his Sword, and so Parrie his Thrust, that was to be given without your Sword, within your Sword, and if you do this very quick, you will rarely be hit with a Home Thrust; and in this Parade there is great Advantage, because by it all Feints, which in other Parades, cannot be so well noted or shunned, are by this baffled Lessons · and confounded.

Lessons Offensive. 1. Of Approaching or Advancing.

Observe here; (when you are standing to your Guard, and your Adversary without your Measure, so that without Approaching you cannot reach him) that you lift your Right-foot about a Foot forward, and presently let your Left-foot follow close by the Ground, your Left-knee a little bowed, taking No tice at the End of every Step, that your Feet be at the same equal Distance as when you first presented your Sword, or if in any thing you vary, let it be in bringing them something nearer; and so your Elong will come as much nearer to your Adversary as you brought your Left-foot nearer to your Right: Always then remember to redouble this Step, or any other that is to be used on this Occasion, till you think your Adversary is within your measure. This step must be always made on plain Ground, lest you Trip and fall, which is very dangerous; but if it be on rugged uneven Ground, there is another suitable to it, called the Double-step, after this manner:

In the first place throw your Left-foot behind your Right (which may be done by raising your Body a little on your Right-foot) about a Foot, then bring your Right-foot forward again, as far before your Left, as when you presented your Sword; these two Motions must be done immediately after the other, or else doing of this step will appear ungraceful; and here you must keep as thin a Body as possible, because the throwing your Lest-foot before your Right, lays your Body open, and so redouble this Step, as the former, according to the Distance you are from your Adversary, till you approach within his Measure.

Lesson

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Lesson 2. Of Retiring.

This may be done three Ways, first with the single Step, the same way you approach with it, only whereas in approaching with the single Step you life your Right-stoot first, here you must lift your Lest-stoot first, and the rest observe, as in the Approach with the single step.

The second is, that with the double Step, and some the same way as in the Advance, only in approaching you throw your Lest-foot before your kight, when in retiring you must throw your Right-soot backward behind your Lest, and the rest is done

s in Advancing with the double Step.

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The third is done by a fuddain jump backwards on the straight Line, with both your Feet in the Air tonce, but you must lift your Right-foot first, and after your jump is done, stand to your Guard again, unless you find occasion to redouble your jump to be arther out of reach.

Lesson 3. Of giving in the Thrust.

To Thrust or make an Elong, observe (when you land to your Guard, and your Adversary be within four Measure) that your Sword be as you please, ither within or without your Adversaries Sword. nd suppose within, then firetch out your Right-arm, nd step forward with your Right-foot as far as may be, keeping the Point straight forwards, and let the Motion of your Arm begin a thought before you nove your Foot, so that the Thrust may be given ome before your Adversary can hear your Foottouch he Ground; and when you are at your full stretch, cep your Left-hand stretch'd, and ever observe to tep a close Left-foot, which must be done by keepng your Left-heel and Broad-fide of your Foot close the Ground, without any drawing it after you. or keeping a close Foot is one of the chiefest Things

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to be observed in this Science. When you give in your Thrust, throw your Lest-hand behind you, or fo place it on your Left-fide, that your Sword and both your Arms may make a straight Line from your Adversary. This must be when you design not to make use of your Left-hand for a Parade, but if you do, then in the very time of giving in your Thrust throw your Left-arm forward as far as you can without putting the rest of your Body into Disorder, turning the Palm from you, by turning your Thumb down, and your little Fingers up, and so Parrie your Adversaries Thrust, if you find he will Thrust, upon the same time you make your Thrust, always remembring when you Thrust within the Sword, to do it with your Nails in Quart or upwards, and Quart well your Hand and Shoulder; but when a Thrust is made without the Sword, then give it in with your Nails in Terce or downwards, and keep your Hill much lower than your Point, and your Head a clear as may be from your Adversary's Sword.

Take notice in all Lessons in which you do not first secure or bind your Adversary's Sword, that you are to Thrust close by the Feeble of his Sword, with the Fort of yours. But there is a Difference when you first secure your Adversary's Sword, for after your securing or binding, you quit his Sword, and give a strait home Thrust, without touching it after

it is bound.

In these Rules there is great Advantage, as in the Quarting of your Hand, when you Thrust within the Sword, preserves them from your Adversary Counter-temps Thrusts in the Face; so likewise doe your Thrusting close by the Feeble of the Sword and keeping your Hilt lower than the Point, when you Thrust without the Sword, as also the holding of your Head to the contrary side your Adversary Sword is on, preserve you from Counter-Temps ever observing as a general Rule, to keep your Head

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on the contrary fide of your Adversary's Sword, on what fide soever you Thrust, for this will frequently preserve your Face from being hit.

Lesson 4. Of Caveating or Disengaging.

In this Case, when your Sword is presented within your Adversary's Sword, and you would have it without (keeping your Nails in Quart) slope your Point so low, that you may bring it up under the outside of his. This must be done with the Wrist, and not any Motion of the Arm, because when you Disengage, if the Arm move, your Body would be too much discovered; so that your Adversary would have an Advantage to give in his Thrust, which he could not do if only your Wrist moved; and this must be done with a sudden Motion; and by this you may learn to slip your Adversary's Sword at pleasure.

Lesson 5. Feinting or Falsifying.

Of these there are several kinds, and the first I treat on is the Ordinary single Feint: When you are on your Guard, and within your Adversary's Sword, disengage and make your Feint without, which you must do with a beat of your Right-soot against the Ground, just as you disengage, and your Sword on the outside of your Adversary's, and immediately after, if you perceive him answer your Feint, and offer to Parrie, disengage again, and give him the Thrust within the Sword.

Lesson 6. The Double-Feint.

There is a Difference between this and the single Feint; for in the single one you must make two Motions, viz. With the first you make your Feint, and with the next you give in your Thrust, unless you make your Feint on that side your Sword lyeth, which

which may be done without disengaging, and is the simplest of all others in all single Feints, it must be given in upon the side your Sword was before you made your Feint: But in the Double-Feint, you are to make three Motions, and the Thrust (unless when you make your first Motion on that side your Sword was presented) is given in on the other side, and not on the side the Sword was just before you began to make your Feint; and to play this, there are two ways, viz. When you are within Measure, you must play it one way, and without Measure another way.

As to the first, your Sword being presented within your Adversaries Sword, then disengage and make your first Motion without his Sword, so stand a thought on it to try whether he will answer you, by offering to proceed to the Parade; if he do not answer, it is useless; but if he do, then presently make your second Motion within his Sword, and you third Motion without it, by giving the Thrust; both these Motions must be done with admirable quickness; at every Motion give a beat with your Foot, and disengage, turning your Nails in Quart.

If you are without Distance, make a Motion to see if he will answer your Feint, and if he do begin again, make your first Motion, as within Distance, approaching at the same time, and so your

There is a contrary to these, that is to be observed when your Adversary make use of them against you, Then you must make use either of the Counter-Caveating Parade, or keep your Sword Point immoveable towards his Face that opposes you, your Arm as much stretched out as possible; and when you do so, you must recover your Body, by drawing your Right-soot close to your Left, stand as it were on Tip-toe, and if for all this your Adversary give a home Thrust, then you must Counter-temps him in

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he Face, and Parrie his Thrust with your Left-hand: rif you perceive him make variety of Feints, then pon every one of them make a half Thrust, which will oblige him to betake himself to the Parade, and when you please you may take the Pursuit; or when he makes variety of Feints, give a plain Homehrust, as smart as may be, and endeavour to defend our felf from Counter-temps with your Left-hand, nd to prevent them, it is always in this Case best when you give a Thrust, to use your Lest-hand.

Lesson 7. The single Feint at the Head.

Being within distance, you may present your word within or without your Opponent's Sword, making a Feint-or Motion at his Face, if your Sword be presented without, by a little stretching out your Right-arm, your Nails in Quart, and when you make the Motion, give a little beat with your Rightfoot, and if the Feint be answered, then immediatey give in your Thrust at his Arm-pit, your Head inder your Sword-arm, your Left-hand held before, you, with the Palm of it looking towards your Right-side, and that part of your Arm, from the Points of your Fingers to your Elbow, must stand in manner straight upwards, which Posture you must ever observe when you give in this Thrust, because indoing it, it defends you from the Thrust of your Adversary, if it be above, and without your Sword : and you may at the same time make a Motion at his Face.

Lesson 8. Of the double Feint at the Head.

Being within distance, make your first Motion or feint, as before, at the Face, your fecond Motion low, without your Adversary's Sword, towards his Belly; and with the third, give a Thrust without, and above his Sword, your Nails in Quart, marking every Motion with your Head, Hands and Feet; and when

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when you make your fecond Motion, hold your hand as in the fingle Feint, and when you give in you Thr Thrust above Sword, you must Quart your Heat well, because you must give it in with your Nailsin Quart; and by this Means your Body will be ken secure within your Sword, when in Terce it would lie open, especially to Counter-temps.

There is a Parrying the contrary, either with the Counter-caveating Parade, or by answering even Motion, by what Means you will fall to Parrie you

Adversary's with the first Parade in Terce.

Lessen 9. Containing the manner of the Fein at the Head on the true Parade.

The contrary to the fecond Parade is this, and do it, you must make your Motion at your Adver fary's Face, and if you imagine he intends to Pari you with the fecond Counter-cavearing Parade, make round his Sword, as it were going a Circle about i and so give a Thrust at his Arm-pit, and with you Left-hand avoid Counter-temps; and being with distance, approach with your first Motion, and i so doing you Caveat his Sword and shun his Parad or if your Adversary follows your Sword, you ma make two or three Circles, till you find a fit time! let in your Thrust.

Lesson 10. Of the low Feint.

When you intend to proceed in this, you mu have your Sword without your Adversary's, an when it is fo, make directly the fecond Motion the double Feint at the Head, and give in the Thru above, and when you are without distance, mal your approach with the Feint, or first Motion, an make in your Thrust with the second. may be Parry'd, by answering every Motion, using the Counter-caveating Parade.

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The contrary to it, is, when your Adversary is ur hand making his low Feint, to take time, and give in the n you Thrust above his Sword, your Nails in Quart.

Lesson 11. Of Battery.

Vailsi be kep. This is a kind of a Beat from whence it derives would its Name, and therefore when you play it, you must present your Sword either without or within your with the Adverfary's, if within, and he within your Measure, ever then keep your Sword half a Foot from his, and ie you when you intend to play; strike a small stroak on the Edge, and Feeble of your Sword on the Edge, and Feeble of his, and at the fame Moment e Fein give a Beat with your Foot, which will surprize your Adversary, if not well skill'd; if it does not, nor that he Answers you by offering to Parrie, give a fraight home Thrust at his Right-pap, as you give in a plain Thrust within the Sword, moving the Sword only with your Wrist, and thereby keeping your Body close. If your Adversary offers to answer your stroke, and go to the Parade, then your best way is to slip him, and give in a Thrust withour, and above the Sword, or when you perceive him going to Parade, then suddainly slip, and make a double Feint on the other fide, and thrust on that fide you gave the Beat.

In the contrary of this Parrie, with the Countercaveating Parade, or meet his Stroak, and make a half Thrust, which will force him to the Parade;

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Lesson 12. Of Volt Conpe.

In this observe to present your Sword within your Adversary's, he being withing your Measure; then make a Feint at the Face, your Nails in Quart, and upon this give a beat with your Foot, and carry your Hand well Quarted, and if by offering to Parrie, he answers this, and that high, then Thrust at the Belly, your Nails in Terce, and keep your Left-

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Left-hand as a Guard from Counter-temps; if by Parrying low, you are disappointed of this Advantage; then after you have made your Feint, instead of a Thrust in the Belly, slip his Parade, and give the Thrust without, and above the Sword; and when you are within distance, approach with the first Motion: If your Sword be presented without your Adversary's, you must first then disengage.

The contrary to this is either to Parrie his Sword with the fecond Parade in Quart, or to take time, and give your Thrust the way he was to give it in upon you, at the Instant he makes his Motion at your Face, or you may pass without his Thrust.

Lesson 13. Of Binding your Adversary's Sword.

This is the securest Play, and chiefest Mystery in the Art of Fencing, wherefore to do it after you have presented your Sword, either within or without your Adversary's, on a sudden over-lap fix or feven Inches of his with eight or ten of yours; and this is sufficient to secure it; but this must be always done with the Edge of the Sword, whether you present it within or without, and immediately after you have bound it, give a Thrust straight home. In this Case, always observing to keep a close Lestfoot; also to give a Beat with your Foot, and to bind with a Spring, viz. Press your Sword almost to the Ground, but stay not with it, but immediately bring it up again, and then give the Thrust; and this prevents Counter-temps, and the best Parade against it is, the Counter-caveating Parade, and if your Adverfary flips your Sword, you must endeavour to bind him within or without the Sword again. You may also put upon him the double or single Feint, or having bound your Sword without, you may give in your Thrust, as in playing the single Feint at the Head.

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Lesson 14. Of the Flancanade.

To do this, when you have presented within your Adversary's Sword, over-lap it with 12 Inches of yours, within eight of his, and give in the Thrust on his Right-flank, on the other fide of the Sword, and beneath it your Nails side-ways, throwing forward your Left-hand, and turning the Palm from you, to keep off Counter-temps in the Belly, and in Thrusting, let your Hilt be lower than the Point, which on at secures his Sword; and note, when you lap over to loit with the flat, and not with the Edge as when you bind.

And thus much-may ferve for an Introduction to he learner in the Science of Defence, and therefore for ther Lessons, not here set down, I refer him to a

Master.

Of HAWKING.

Of Hawks there are two forts.

The Long-Wing'd Hawks.

Aulcon and Tiercle gentle.

Gerfaulcon and Ferkin.

Saker and Sakaret.

Lanner and Lanneret.

Barbary Faulcon.

Marlin and Jack.

Hobby and Jack.

The Short-Wing'd Hawks.

Eagle and Iron.

Goshawk and Tiercle.

Sparrow-Hawk and Musket.

there are other two of inferiour fort, as Ring-Tail.

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Raven and Buzzard. Forked Kite. Hen-Driver, &c.

And as the Age of these Hawks is, so we name then other

The first Year a Soarage.

The second Year an Intermemer. The third Year a White-Hawk.

The fourth Year a Hawk of the first Coat.

Thus much for their Names, now we comet in a The Faulcon-Gentle, for Partridge or Mallard. ure

Gerfaulcon will fly at the Hern.

Saker, at the Crane or Bittern.

Lanner at the Partridge, Pheafant or Choofe.

Barbary Faulcon, at the Partridge only.

Merliss and Hobby, at the Lark, or any small Bird, abou Goshawk and Tiercle, at the Partridge or Hare. heod

Sparrow-Hawk at the Partridge or Black-Bird.

And the Musket at the Bush. Your Hawk watch, and keep from Sleep, continu on you ally carrying him upon your Fist, familiarly stroa of the him with a Wing of some dead Fowl, or the like Hand play with him: Accustom to gaze, and look is bring his Face with a Loving, Smiling, Gentle Counter and do nance; and that will make him acquainted and for which which will be supported by the strong s

Having made him familiar, the next thing is and to Bring him to the Lure, (which the Falconer makes of feed. Feathers and Leather, much like a Fowl, which hat North cafts into the Air, and calls the Hawk to) which more after this manner. Set your Hawk on the Perch, we the Phood him, and shew him some Meat within your Fit there call him by Cherripping, Whistling, or the like, till have comes, then Feed him with it; if he comes no wash let him fast, and be sharp set: Short-wing d Hawk and a are properly said to be called, not Lured. Make his and bold, and acquainted with Men. Dogs and Hosse Pellet. miliar with Men. bold, and acquainted with Men, Dogs and Horse Pellet and let him be eager and sharp set, before you sign.

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in the Lure, knowing his Luring Hours; and let oth fides of the Lure, be garnished with warm and bloody Meat; let him likewise know your Voice well; othat being well acquainted with Voice and Lure, he Hearing of the one, or fight of the other, makes im Obedient; which you must reward by Feeding, or punish by Fasting. But before Luring (or any light) it is requisite to Bath your Hawk in some wiet and still shallow Brook, or for want of that, nomet in a large Bason, shallow Tub, or the like, less bethese ing at Liberty, you lose your Hawk, (whose Namire requires such Bathing) and make him range.

Now to make him know his Lure, is thus: Give your
Hawk to another, and having loosned in Readiness
his Hood-strings, and fastened a Pullet to the Lure, go a
little distance, cast it half the length of the String
Bird about your Head, still Luring with your Voice, unhood your Hawk, and throw it a little way from him;
if he stoop and seize, let him plume the Pullet, and
seed on it upon the Lurk: Then take him and Meat
enting on your Fist. Hood him, and give him the Tiring

ontint on your Fist, Hood him, and give him the Tiring strong of the Wing, or foot of the said Pullet.

Having Manned and Lured your Hawk, before you ook it bring him to his Flight, one thing is to be observed ountered and done, called in the Faulconers Dialett, Enseaming, and f which is to clease him from Fat, Grease and Glut, known by his round Thighs, and full Mentings; g is and thus you may do it: In the Morning, when you kes the him, give him a bit or two of Hot-meat, and ich at Night very little or nothing. Then feed him Morning and Evening with a Rook, wash'd twice till the Pinions be tender; then give a Cassing of Feathers as his Nature will bear; and once in two or till three Days give him a Hens-Neck well jointed and washt: Then a quick Train Pigeon every Morning; and after by these and his own Exercise, he has broken and dissolved the Grease, give him three or four Horse Pellets of the Root of Cellandine, as big as a Garden-

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flie

Peafe, steept in the Syrup of Roses; and you have

done this part of your Duty.

To enter your Hawks; for Partridge or Fowl lay an old Field Partridge in a Hole, covered with something, and fasten to it a small Cream (i. e. a fine small long Line of strong and evenwounded Packthread fastned to the Hawk when first Lured) and uncoupling you ranging Spaniels, pluck off the covering of the Train Partridge, and let it go, and the Hawk after it; and as foon as he has flain it, reward him well with it. And thus to make him-fly at Fowl, feed him well with the Train of the Fowl you would

have; doing afterwards as above.

The Fault of Hawks differ according to their Nature and Make. Long-wing'd Hawks Faults are thus helped. If he used to take stand, flying at the River, or in Champaign Fields, thun flying near Trees or Covert, or otherwise, let several Person have Trains, and as he offers to stand, let him that's next cast out his Train, and he killing it reward him. And indeed you ought never to be without some live Bird or Fowl in your Bag, as Pidgeon Duck, Mallard, &c. If he be froward and Coy; when he kills, reward him not as usually, but flide some other Meat under him, and let him take his Pleasure on it; giving him some Feathers to make him scourand

If he be Wild, look not inward, but mind Check, (i. e.) other Game, as Crows, &c. that fly cross him) then lure him back, and stooping to it, reward

him presently.

The Faults of Short-wing'd Hawks thus are helped. Sometimes the Goshawk and Sparrow-Hawks, will neither kill nor fly the Game to Mark, but will turn Ido Tail to it: Then encourage your Dogs to Hunt, cast a Train Partridge before your Hawk; make him and l seize it, and feed well upon it. If mely

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If a Hawk take a Tree, and will not fly at all, feed him then upon quick Birds, and make him foot them, and in the plain Champaign Fields unhood him, and riding up and down a while, let one cast out a field Partridge before him, let him fly at it, and footing it, feed on it. If they be too fond of a Man, that after a stroke or two will not fly, be seldom familiar with him, and reward him not as he comes fo

improperly: Otherwise reward him well.

As for Mewing of Hawks, the best time for Longwing'd Hawks is about the middle of April, and March for the Short-wing'd Hawks. There are two kind of Mewings. I. At the Stock or Stone; fo called from its being low upon the Ground, free from Noise, Vermin, or ill Air. 2. At large; so calkd from being in a high Room, with open Windows towards the North or North-East. The former is accounted the best Mewing. The Faulconer before he Mews his Hawks, see if they have Lice, to Pepper and Scower them too. The best time to traw the field Hawk from the Mew is in June, and he will be ready to fly in August; the Hawks for the River in August, will be ready in September.

Cures for Hawks Diseases.

The Faulconer ought diligently to observe the Complexions of his Hawks Castings and Mewings, to judge of their Maladies, an affured fign of knowing whether they are fick or distempered in this. Take four Hawk, turning up her Train, if you fee her Ivel or Fundament swelleth, or looketh red; Or, fher Eyes or Ears be of a fiery Complexion, it is lped, m infallible fign of her being not well and in good nei-lealth; and then Scouring is necessary first; which turn idone by Aloes Succeptione, about the quantity of a lunt, lea wrapt up in her Meat; and this avoids Grease, him and kills Worms too.

For the Cataract, Take one Scruple of washt Aloes If hely beaten, and two Scruples of Sugar-Candy, mix thefe

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these together, and with a Quill blow it three or

four times a Day into your Hawk's Eye.

Pantus or Afthma, Pour the Oil of Iweet Almond into a Chickens Guts, well washt, and give it the Hawk: Or, scower him with Satlandine-Pellets, and Oil of Roses, and then wash his Meat in the Decodie whi on of Coltsfoot.

Filanders or Worms, To prevent them, feeing your he Hawk low and poor, give her once a Month a Clove her of Garlick. To cure or kill them; take half a grey dozen Cloves of Garlick, boil them very tender in Milk, dry the Milk out of them, put them into a ling Spoonful of the best Oil of Olives, and having Han steep them all Night, give them both to your Hawk, same when she was cast, in the Morning: Feed him not and till two Hours after, and then with warm Meat, and Land him warm all that Day keep him warm all that Day.

and o Lice: Mail your Hawk in some Woollen-cloth, put of between his Head and Hood a little Wool, and take about a Pipe of Tobacco, put the little end in at the lave Tream, blow the smoak, and the Lice that escape best killing, will creep into the Gloth, Probatum, and

Formica, Take a little of the Gall of a Bull, and beating it with Aloes, anoint the Beak of the Hamk Well

ons,

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Morning and Evening Frounce, Take the Powder of Allume, reduced to admi Salve with strong Wine-Vinegar, and wash her Mout vine with it; then take the Juice of Lolium and Raddill hus,

mixt with Salt, and anoint the Sore

Appoplex, Gather the Herb, Afterion, wash you Brav

Hawks-meat with the Juice thereof when you feel Whice See b

Wounds, Take the Juice of English Tobacco, o Were Musse-ears, after you have sticht it up with a little see he Lint, bathe the Place. An ele Campit, This one Strupile of

The Bearing own bas cossed the He ne

Of BOWLING.

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it the HE first and greatest Cunning to be observed in Bowling, is the right chusing your Bowl, in Bowling, is the right chusing your Bowl, which must be suitable to the Grounds you design to me on, thus: For close Alleys, your best choice is the Flat Bowl: 2. For open Grounds of Advantage, Clove the round Byassed-bowl. 3. For Green Swarths, that that are plain and level, the Bowl that is as Round as a Ball, der in The next thing requires your Care is, the chuinto a sing out your Ground, and preventing the Windings, having Hangings, and many turning Advantages of the Hawk, sime, whether it be in open wide Places, as Bares and Bowling-greens, or in close Bowling-Alleys.

Lastly, Have your Judgment about you to observe

at, and Lastly, Have your Judgment about you to observe and distinguish the Risings, Fallings and Advantages is, put of the Places where you Bowl: Have your Wits d take about you to avoid being rookt of your Money: And at the have your understanding about you, to know your escape best Time and Opportunity for this Recreation; and finally a studious Care of your Words and Passing, and then bowl away, and you may deserve, Hank Well have you bowled indeed.

But methinks I cannot conclude here, without d to admiring how aptly a Bowling-green is by the Di-Mout vine Quarles characterized, in the following Verses, addil dus,

You Brave Pastime, Readers, to consume that Day, feel Which without Pastime slies too swift away!

See how they Labour, as if Day and Night co, c Were both too short to serve their loose Delight?

Littl See how their curved Bodies wreath, and skrue such Antick-shapes as Proteus never knew:

One rapps an Oath, another deals a Carse,

One rapps an Oath, another deals a Carse, In the never better bowl'd, this never worse;

One

One rubs his itchless Elbow, shrugs and laughs,
The t'other bends his Beetle-brow, and chases.
Sometimes they whoop, sometimes the Stygian cries,
Send their black Santo's to the blushing Skies:
Thus mingling Humours in a mad Confusion,
They make bad Premisses and worse Conclusion.

Thus much for Bowling.

Cf TENNIS.

Antiquity of Invention with Bowling, and for the Violence of its Exercise to be preferred before it. This Sport indeed is of so universal an Acceptance, that Majesty it self is pleased to design its Recommendation, by tracking its laborious Steps and Princes and Lords admire it too for the most proper Recreation, to suit with Innocence and true Nobility. Here the Body is briskly exercised more than ordinary, and inured in Agility and Nimble ness; this renders the Limbs slexible and mettlesom and adapts them for the most Vigorous Enterprize.

Tennis and Baloon are Sports which are play'd almost with the same Instruments; and therefore may be under one and the same Head: The first is a Pastime, used in close or open Courts, by striking a little Round-Ball to and fro, either with the Palms of the Hands (and then is called Pila palmaria in Latin) or else a Racket, made for the Purpose, round with Net or Cat-gut, with a Handle: The other a strong and moving Sport in the open Fields with a great Ball of double Leather fill'd with Wind, and so driven to and fro with the strength of a Man's Arm, armed in a Brace of Wood. And thus much shall suffice to speak of the Baloon and

Tennis:

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the diligent and careful Profecution of your own lawful Business; or invite you to throw away your Time and Money too lavishly and idlely; nor engage you in any Passion; that so you may not offend God, dislike your Neighbour, nor incommode your Self and Family in your Well-being and Felicity; and then you may recreate your self without Fear: And in this Recreation observe the ensuing Morality of

The Tennis-Court.

When as the Hand at Tennis-plays,

And Men to Gaming fall,

Love is the Court, Hope is the House, And Favour serves the Ball.

This Ball it self is due Desert, The Line that measure shews

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Is Reason, whereon Judgment looks Where Players win and lose.

The Tutties are Deceiful Shifts.
The Stoppers, Jealousy,

Which hath Sir Argus hundred Eyes; Wherewith to watch and pry.

The Fault whereon Fifteen is lost, Is want of Wit and Sense,

And he that brings the Racket in Is Double Diligence.

But now the Racket is Free-will,
Which makes the Ball rebound,
And noble Beauty is the Choice.

And noble Beauty is the Choice, And of each Game the Ground.

The Racket strikes the Ball away, And there is Over-fight,

A Bandy ho! the People cry, And so the Ball takes flight. R

Now at the length Good-liking proves,

Content to be their Gain:

Thus in the Tennis-Court, Love is

A Pleasure mixt with Pain.

Of RINGING.

Whosever would become an accurate Master of this excellent Art and Pleasure, and is very desirous to be esteemed an Elaborate and Ingenious Ringer, and be enrolled amongst that Honoured Society of College Youths; I must beg leave to instruct him before he enters the Belsrey, in these ensuing short Rules, which he must strictly observe. viz.

Notes, La, Sol, Fa, Mi, Re, Ut; so in Ringing, a Peal of Bells is Tuned according to these Principles of Musick: For as each Bell takes its Denomination from the Note it sounds, by its being flatted or deeper, as First, or Treble, second, Third, Fourth, &c. as they are in number to ten or twelve Bells, the last being called the Tenor: So must they successively strike one after another, both Fore-stroke, and Back-stroke, in a due Musical time or Equi-distance, to render their Harmony the more Pleasant, and to make the young Practitioner the better informed to observe the Life of Musich, and indeed of true Ringing, Time; and therefore is called, Round-ringing.

2. As in Musick, so in Ringing there are three Concords, so called from their Melodious Harmony and Agreement, which Principally are these; Thirds, viz. 13, 24, &c. Fifths 15, 26, &c. Eights 18, 29, 310, &c. and these are the more pleasant according to the Number of Bells they are struck on, and as they are struck, whether separately or mutu-

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ally. From hence Ghanges are made, which is only a Changing place of one Note with another, so variously, as Musick may be heard a thousand ways of Harmony; which being so obvious to common Observation, I shall not go about to demonstrate; for that if two may be varied two ways, surely by the Rule of Multiplication, a Man may easily learn how many times, 6, 7, 8, 9, 10, or 12 Bells Notes may be varied, which will run almost ad infinitum.

3. For the better observing the Ringing of Changes or Rounds, these three things are to be noted.

I. The Raising true in Peal.

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2. Ringing at a low Compass; and

3. Ceasing in true Peal: All which three are the most effential Parts to render a Practitioner Excellent.

1. For Raising a Peal of Bells true, the modern and best Pactice recommends the swiftest and quickest peffible, every one taking Affistance to raise his Bell, as its going requires; the leffer Bells as Treble, &c. being by main Strength held down in their first Sway (or pull) to get time for the striking of the rest of larger Compass; and so continued to be strong pulled till Frame-high, and then may be flackned: The bigger, as Tenor, &c. must be pincht or checkt over head, that the Notes may be heard to firike roundly and handfomely. Observe that all the Notes strike round at one Pull: I do not mean the first : but 'tis according to the Bigness and Weightiness of your Bells: However, in raising a Peal, do not let one Bell firike before the rest, or miss when the rest do; this is contrary to the frict Rules of true Ringing: And this is called Round-ringing. Now if you defign to raise a Peal of Bells for Changes, you ought to raife them to a Set-pull, as the most proper for commanding the Notes, and he who is not well skilled to manage his Bell at a fet pull, will be apt to drop or over-turn it, be in a Wood, and fruitlefly toil and moil himself. Therefore in practising the

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Setting of a Bell, cast your Eye about the other Bell-ropes, during your managing your own, that you may accustom your self to manage it according to the Change.

2. For Ringing at a low Compass, is thus observed: By keeping a due punctum or beat of time, in the successive striking one after another of every Bell; the best Ringer being set to the Treble, that may guide and direct the rest of the Notes in their due Measure.

3. For ceasing a Peal of Bells; let them fall gradually from a set Peal, checking them only at Sally, till the low Compass renders it useless; and when so low, that for want of Compass, they can scarce strike at Back-stroak: Then let the Treble Ringer stamp, as a Signal, to notify, that the next time they come to strike at the Fore-stroke, to check them down, to hinder their striking the Back-stroke; yet Fore-stroke continued, till brought to a neat and graceful Chime, which may be the Finss to that Peal.

Thus much in short, for Raising, Round-ringing, and Ceasing a Peal of Bells; I come next to lead you forth into that spacious Field of Variety of Changes, and present you with Instructions that may be meerly necessary, for the right Understanding the several kinds of them.

Now in Ringing-Changes, two of our best Senses, are to be employed, viz. The Ear, and the Eye: The Ear, hearing when to make a Change; and the Eye directing the Bell in making it: The Bells being the Object of the former, and the Bell-ropes the Object of the Latter: And to render both the Eye and Ear useful in Ringing Changes, these five Things are throughly to be Understood.

first, Endeavour to distinguish the Notes of a Peal of Bells one from another while Ringing.

Secondly, Learn to apprehend the Places of the Notes.

Thirdly, Understand the Precedency of Notes.

Fourthly,

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Fourthly. How to make a Change in Ringing. Fifibly and Lastly, How to Practife the four fore-

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1. To know the Notes of a Peal of Bells afunder) which is easy in Round-ringing) in Changes is thus: Get the skill of tuning them with your Voice, by. imitating their Notes while Ringing. Or if you are equainted, either by your felf or Friend, with some Singing-Master, or one who has skill in Singing, get him to instruct you in the true Pitch of any Note, and aid your distinguishing them; otherwise you may be puzzled in this, to know which is Treble,

which Second, &c. as in 532641. Oc.

2. To know the Places of the Notes, is no way letter to be apprehended than thus: The Practitioner ought to form an Idea in his Head of the Place of ach Note, whether in a direct Line, or Obliquely: and representing them by a Figure in his Mind, see (as it were) by the Eye of the Understanding each stroke of the Bell, as the Treble, 1. Second 2. Third 3. or. fo that as the Ear is to direct him, when to make the Change, fo a right Apprehension of the Motion and Places of the Notes, ought to be a Means to guide his Ear.

3. The Precedency of Notes, is of a very obvious Demonstration; thus: In Ringing Changes, the fore and Back-stroke, successively following one mother, are properly faid to Lie behind one another, scording to their Places of Striking. Or in short, in 12345, the Note that leads either at Fore or Backbroke, is said to Lie before the rest, and the last to be behind. As the 2 is said to lie behind the 1, so t lyeth before the 3, as the 3 lyeth behind 2, so it yeth before the 4. And so of as many as are Rung, 4. The manner of making a Change, is very com-

mon, and needs no particular, but general Rule; That it is made by moving one Note into another's. Place, Up and Down, as Occasion requires; but ufually

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usually made by two Notes standing one next the

other, as hereafter may be observed.

Laftly, In your Ringing Changes, thefe two things (in which confists the practick part of this Art) are to be rightly considered, First, Readily to know which two Bells are to make the fucceeding Change. And Secondly, to consider (if you are concerned in it) what Bell you are to follow in making it. To understand which the more perfectly, you must imprint in your Memory, the Method of the Changes prick'd in Figures, and to be expert likewife in fetting them down divers ways, and making any Figure a Hunt at Pleasure; and thus without paufing or hesitating to consider the Course, you may throughly understand the Methods; the Four preceeding Observations being first perfectly underflood.

There are two ways of Ringing Changes, viz. By Walking them, as the Artists stile it; or by whole Pulls, or half-Pulls: Walking is when in one Change the Bells go round, Four, Six, or Eight times; which is a most incomparable way to improve young Practitioner, by giving him time to confider, which two Bells do make the next succeeding Change, and in making it, what Bell each is to follow; for that by this means (by his Industry) he may be capable of Ringing at Whole-pulls; which is, when the Bells go round in a Change at Fore and Backstroke; and a New Change is made every time they are pulled down at Sally. This was an Ancient Practice, but is now laid aside, ; since we have learnt a more advantageous way of hanging our Bells, that we can manage a Bell with more ease at a Set-pull than formerly: So that Ringing at Halfpulls is now the modern general Practice; that is, when one Change is made at Fore-stroke, another at Back-stroke, Oc.

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He that Rings the flowest Hunt, ought to notify the extream Changes; which is, when the Leading Bell is pulling down, that he might make the Change next before the extreme, he ought to say Extreme, By this means, betwixt the Warning and the Extreme, there will be one compleat Change.

Of Changes, &cc.

There are two kinds of Changes, viz. Plain Chantes, and Crofs-peals which Terms do denote the Nature of them, for as the first is stilled Plain, so are its Methods easy; and as the second is called Cross, fo are its Methods cross and intricate: The first have a general Method, in which all the Notes (except three) have a direct Manting-Courfe, moving gradually under each other, plainly and uniformly : Plain are likewise termed single Changes, because there is but one fingle Change made in the striking all the Notes round, either at Fore or Back-stroke. But the Second is various, each Peal differing in its Course from all others; and in Cross-peals as many Changes may be made as the Notes will permit. In short, as to Plain Changes, I shall not dilate on them here, it being so plainly understood by every one that lately have rung a Bell in Peal; all therefore I shall add is this, that any two Notes that strike next together may make a Change, which may be done either single or double, as you list. The single, by changing two Notes; and the double by changing Four, i.e. Two to make one Change and two another; which is however called One double Change, and not two Changes; because 'tis made in striking the Notes of the Bells once round.

But before we proceed any further, 'twill be requisite to give this general Instruction; that in all Peals for the Young Practitioners more easie learning, we shall set down some few Changes, as the Courses of such Peals will permit, thereby to acquaint him with

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with a more easie Method of learning the same, add vising him not to adventure on too long Peals, till he is thoroughly practised and perfect in such ones. No Double Change can be made on a less number of

No Double Change can be made on a less number of Bells than four (therefore that must be first treated of) and the shortest Peal that can be Rung on four, is of Eight Changes being Doubles and Singles, and the first is Double and the next Single, and so by turns, till every Bell being hunted up and down, comes into it's proper place again, which brings the Bells round. By this may be learnt the Method of Hunting a Bell; for as may be seen the Changes here prickt down, every Bell Hunts gradually up and down, and the second and fourth Hunt down, and the Treble and Third up, and every Bell leads away no more than one whole Pull, or lies behind any more than one whole Pull,

When the Practitioner is perfect in this, he may then proceed to Ring the four and twenty Doubles and Singles, wherein must be observed, that when the Treble leads the Bell in second's place lies a whole Pull, and then leads, and the two Bells in third and fourth's Places, make a Single Dadge, as by the subsequent

Figures may appear

1234		1
2143	3124	4132
2413	3214	4312
4231	2341	342E
4321	243.I	3241
3412	4213	2314
3142	4123	2134
1324	1432	1243
1342	1423	1234

Now

ells:

Now the true Signification or Meaning of a Dodge s this; any Bell that is coming down, and is to make Dodge, must move up again one Bell higher, and my Bell that is going up, and is to make a Dodge. nust come down one Bell lower, and then up or lown as the Course of such Bell requires, as may be fen at the leading of the Treble at fore-stroke in the receding twenty four Changes, where the second is n thirds Place coming down, and the fourth behind, ut at the next Change at Back-stroke, the fourth goes lown into thirds Place, and the fecond goes up beand; this may serve as an Explanation for dodging nall Peals.

There is another way of Ringing twenty four , and thanges Doubles and Singles on four Bells, which vaies only from the former, that when Treble is behind, he Bell in third's Place lies still a whole Pull, and he Bells in Treble and second's Places make a Dodge, nd then proceed again in their former Course, as may be here feen.

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2431	4321	3241
4213	3412	1 2314
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1432	1324	1243
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In all Peals upon five Bells, there are two Hunts. wit a whole and an Half-hunt, and for the Practioners more eafy knowing, which Bells are the whole mt, and the Half-hunt the figures representing such Ill are fet down at the beginning of each Peal.

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This Peal on five Bells is thirty, wherein every Bell has an Hunting Course, till the Treble has done leading, and then the Bell in third's Place lies still and the two hindmost Bells make a single Dodge, and proceed in their Hunting Course again as in these thirty Changes.

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Of Cross-Peals.

Or in these Cross-Peals, we must observe the Prime Movement, which sets the whole Frame a going and that is called the Hunt, which hath one constant uniform Motion throughout the Peal, and different from that of the other Notes; and indeed by the whole Course of the Peal is steer'd. This kee a continual Motion through the other Notes, in from leading, to strike behind, and from them again to Lead; which is called one compleat Course

Some Peals upon five Bells confift of single Courses, wherein are ten Changes, and twelve Course make the Peal. Others upon Five, consist of do ble Courses, wherein are 20 Changes to every Courses.

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Upon fix Bells there are likewise single and double Courses, viz. Twelve Changes in every fingle Course, as in Grandsire-bob, &c. and Twenty-four Changes in every double Course, as in College Bobs. that being the first Change of every Course, wherein the Hunt leaves Leading: In short, judiciously observe the first Course of any Cross-peal, and you will foon fee the general Method of the whole Peal: All Courses in Cross-Peals agreeing in these following three Respects. First, In the Motion of the Hunt. Secondly, In the Motion of the rest of the Notes: And thirdly, In making the Changes. Which three things being well (to omit Instance of Demonstration) and narrowly observed, will be very helpful both in pricking and Ringing Courses; the first and third for directing you in Pricking them, and the first and fecond in Ringing them.

There is one Difficulty to be removed e'er I can an come to prick down those Peals I design to be the Subject of the Discourse of this Epitome, and that is How to make the first Changes at the beginning of each Peal. I mean to make the Second, Third, Fourth, &cc. whole Hunts, and this in short is thus direfled: In any Cross-peal the whole Hunt may move either up or down at the beginning; and the Motion a goir of the whole Hunt, in the first Course of each of the following Peals will direct the first Motion of any rfferen Cross-Hunt, and by Consequence of making the first by the Changes in that Peal, taking along with you this Ob-

iskee fervation.

That whenfoever the first Change of any Peal happens to be fingle, it must be made at the back-Cour froke, to prevent cutting Compass; and the like, when a double Change happens first in a Peal of Court Triples and Doubles: But when it happens, that the of do inft Change is made at the Back-stroke, then Conse-Com quently the Bells at the end of the Peal will come ound at a Fore-stroke Change.

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I shall omit speaking to any of the several Peals on four or five Bells; for that in my Opinion little Musick is heard, though much Practical Observation is made from them; and therefore shall be gin with Grandsire-bob, as having mentioned it but just before in my general View I made of Cross-peals

Grandsire Bob.

Bob Changes take their Name from this, viz. When the Treble leads in the So and and Third, and the Fifth and Sixth's Places, then they are called Bob Changes In Ringing which you are to observe these Rules

viz.

Whatsoever Bells you follow when you Hunt up the same Bells in the same order you must follow in Hunting down; as in the Changes here prickt where the Treble hunting up, first follows second then fourth, and then sixth; when it comes behind first follows second, in hunting down Fourth; and when Hunting up follows Sixth in the same Order The like may be observed in Ringing any other Bell, with this Difference betwixt the whole Hunt and the rest, viz. Every time the whole Hunt leave the Treble's Place, and hunts up, it followeth different Bells, from what it did at its first hunting up.

In the enfuing Peal here prickt, are Eighteen Score Changes, wanting one. It may be Rung with an Hunts, and begin the Changes Triple and Double You may make your extream at the first, second or third fingle Bob; or the first, second, or third time, that the half and Quarter-hunts dodge behind the single must be made behind in either of these.

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Thus much for Grandfire-bob : I shall new collect what London Peals I think most Harmoniou and agreeable, without troubling my felf to go to Oxford, Nottingham or Reading, to enquire after their different Methods of Peals, as indeed needless; and my reason is this; Because I think the same Rule for Peals that are fuirable to our London Genius, ma challenge likewife an Acceptance amongst other Cities: provided their Steeples are furnished with a many, and as good Bells, and their Belfrey's with ingenious and elaborate Ringers as here in London.

I shall begin then with Peals upon fix Bells, an herein in order, measure out the Delights on Peal from Six to Eight Bells, and fetting out early, pre

fent you with

The Morning Exercise.

Doubles and Singles. The whole Hunt is the Treble, which hunteth up into the Second, Thin and Fourth places, lying twice in each; and the lyeth still in the fixth Place, having dodged behin and makes another, and then Hurt down as it Hunt up, and then leads four times. Observing the ma ner of its Pricking, and its Practice may excuse an further defining it.

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231456	26;143		15 634	145623	13240	-
234165	26.534	165243	125643		13245	1346
234156	216:43	165234	125634	143265		1345
243516	216534	155243		143256		1146
243551	126543	156234	124365	134265		31450
245316	126534			134256		1416
245351	162543		142365			14150
2, 4631	162534	154352	142356	135524		43510
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This will go 120 Changes, and by making Bobs, 240, 360, 270.

A Cure for Melancholy.

Doubles and Singles.

I should think it needless to explain the Method of prick'd Peals, and give a large Definition of them, when their plain Demonstration might be sufficient; however, as the old Phrase is, Because 'tis usual, something shall be said of this too.

The Treble is the whole Hunt, as in the former, and leads four times, and lyeth behind as many, and wice in every other Place; the two Bells in the 3d and 4th Places continue dodging, when the Treble moves out of the 4th Place, until it comes down there again, and then the two hindmost dodge, till the Treble displaceth them, who maketh every bouble Change, except when it lieth behind, and then the double is on the four first, and on the four all when it leads. Every single (except when the Treble lies there) is in the 5th and 6th places; or spossessed by the Treble, then in the 3d and 4th Places: Every Bell (except the Treble) lies four the sin the Second Place: But enough; A Word the mough to the Wife. See it here Decyphered:

	BERTHAMPSON					
	13456	245316	45 1236	156423	134652	125643
	-	243561	451263	156432	134525	126634
	13465	245361	415236	606.		126544
	13456	423561	415263	165423	162345	-
	11465	425361	145236	165432	162354	154263
ñ		423516			163245	154236
	14165	425316	142536	143652	165254	152463
	14156	452136	142563	143625		152436
		452163			125634	-
				E 2		143525

Of Ringing.

143526	134562	606.	132654	177-177	12246
143501		105423	132045	124265	-
000.	150423	105432	136254	124356	
134526	156432		136245	123465	

This will go Six Score Changes, but by makin Bobs, it will go 240, 360, or 720. The Bob is double Change at the leading of the Treble, in whice the Bell in the 4th Place lyeth still.

London Nightingale.

Doubles and Singles.

The Whole-hunt is the Treble, who lieth for times before, and as many behind, and twice every other Place: The two hind Bells continued dodging, when the Treble moves down out of the Fifth Place, till he comes there again, the Bell into Fourth Place lying still all the while: When the two hind Bells aforesaid leave dodging, then the two hind Bells take their dodging Places, till disposses again, by the return of the said Hind Bells to the dodging; and then they Cease.

123456	243561	451263	162543	134526
	243561	415236	162534	
213465	423561	415263		135462
213456	245361	145236	153624	135426
231465	425361	145263	153642	
231456	245316	154236	bob.	142356
234165	425316	154263	156324	142365
234156	452136		156342	124356
243516	452163	126543		124365
423516	451236	126534	134562	-

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136245	125643	bob.	bob.	123465
136254	152634	165423	146352	123456
163245	152643	165432	146325	
163254	-	-	-	
Renius	164523	143652	132465	
125634	164532	143625	132456	
	122-	- 77 - 7	-3-430	1

This will go 120, and by making Bobs, 240, 360, 1720.

College Bobs.

In this Bob, when the Treble leaves the two Hind alls, they dodge till it comes there again, and till Treble gives way for the dodging again of the id two Hind Belle, the two Firft Bells dodge, but fer Cease dodging, when the two Hind Bells dodge.

- C - L					
of t	123456	423615	412653		
hen t	Military account from	243651	421635	152364	165324
the to	214365	426315	246153	135246	
ossell	124356	462135	241635	153246	156342
to the	213465	641253	426 153		-
	131456	642135	462513	126543	132546
	324 165	461253	€ .	125634	135264
4526	321456	416235	165432	-	
bob.	134165	142653	bob.	164235	124365
5462	243615	4 2635	156423	162453	123456
5426	426351	146253	- descriptor to the		-BESSAL SHOWNING
	146315	142635	143526	143652	
.2356	42365 I	416253	606.	veb.	
2365	24635.1	146235	134562	134625	
1.255		Part of the Section			

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Here every Bell, when it comes to lead, make a dodge before, then after one Change it lyeth still after it has made another dodge, it moves up int oth the 4th place, where twice it lieth still; and down he again, except the Treble happens to dodge with it is apple the 4th Place, then it hunts up behind. When the Treble moves down out of the 3d Place, the two Place Bells in the 3d and 4th Place continue there, till the nove Treble comes up thither again; the two hind Bell he H dodging in the mean time.

123456	623541	312546	bob.	bob.
1/10/20-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	265314	132564	135426	164352
214365	625341	315246		
124356	263514	35 426	153246	146532
213465	236154	534 62	152364	bob.
231645	321645	351462		164523
326145	236145	534126	125634	
231654	321654	- හිc.	126543	146253
326154	312564	153624		142635
362415	135 246	bob.	162453	
634251	315264	135642	164235	124365
364215	132546	-	-	123456
632451	135264	153462	146325	

Both these Bobs will go One Hundred and Twen Changes, and by making of Bobs, they will go 240 360, or 720. And thus with little Variation, the This are other Bobs may be made after the same manne led. I and afford as Admirable Musick as possibly can bis Da made on Bells. I shall therefore hasten to finish th Days Work, only first present you with this or more, called

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The City Delight.

Doubles and Singles.

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The whole Hunt is the Treble, and lieth as before in the Nightingale: When the Treble moves out of down he 3d Place, the Singles are made in the 2d and in it is dplace, till the Treble repossesses his 3d place, and en the hen behind, till it moves up again out of the 3d he two Mace. The two hind Bells dodge when the Treble ll the moves out of the 5th place, till he returns again; Bell he Bell in the 4th place lying still all the while.

123456	2643 1	154362	162534	143255
	265413	bob.	162543	143256
213465	256413	153426	126534	134265
213456	261143	153462	126543	134256
131465	256 43		-	
231456	251634	156234	124365	135642
234165	251643	156243	124356	135624
234155	215634	165234	142365	beb.
234156	215643	169243	142355	136542
234615	125634	164352	-	136524
243615	125643	164325	145623	
243615	152634	bcb.	145632	137465
246351	152643	163452	bob.	132456
264351		163425	146523	123465
246531	154326		146532	123456

ther This will go as many Changes as the last mentianne ted, by making Boss. And here I will shut up an I is Days Peal upon Six Bells with

E 44

The

The Evening Delight.

Doubles and Singles.

The whole Hunt is the Treble, and lies as befor specified, with this Exception only: That it dodge in the 2d and 3d Places, every time it Hunts up and down. Observe when Treble goes to lead, and leave off leading, the Bells in the 3d and 4th places liftill, &c. Note the Pricking this Peal.

123456	25 1163	16,235	11:326	156324
213465	215153		154326	bob.
231465	24 536	16 453		1653.2
213645	214536	126453	153462	156342
231645	241356	bcb.	135462	-
236154	214356	162435	153642	153624
236154	124365	1264:5	135642	135624
236514	142365	and the residence of the		15326+
263514	124635	124653	136524	135264
265314	142535	142653	163524	
256341	- MEMILINAMIA	12:563	bob.	132546
265 31	146'53	142563	136542	123546
256431	16 1235	-	153542	132 156
254613	bob.	145236	En same getter gettingtellen der	123455
245 63	145253	154236	165324	

This Peal will go 123 Changes, and by making

Babs, as many as above.

Note that in all the foregoing Peals upon Six Bells the Bobs are double Changes, and made always at the Leadings of the Whole-Hunt. He that Rings the Half-Hunt, may belt call Bob in all Peals.

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Six,

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I come now to the Changes upon Seven Bells, which tho' the seldom Practice of them might excuse my omitting them; yet because I promised to say somewhat of them, I shall be as good as my Word, (the Character of an Honest-man) and present you with a couple of Examples, and then proteed to Peals upon Eight: But this I must crave save to premise, That variety of Changes may be prick'd upon Seven Bells, as Triples, and Doubles, Triple Doubles, and single Doubles, &c. and the same Methods may be prick'd upon Seven, as may be upon Five, the true difference of Proportion being observed; but to proceed.

Dodging Triples.

Triples and Doubles, and indeed all Peals upon fix, may likewife go upon Seven Bells: Thus,

0	
4523671	3514276
5432761	3192467
4523716	1325476
5432176	1352746
5341267	
Plain Triples	S
6745231	3517264
7654321	3152746
7563412	1325476
5736142	
5371524	
	5432761 4523716 5432176 5341267 Plain Triples 6745231 7654321 7563412 5736142

In this all the Bells have a Hunting Courfe.

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College Triples, dodging before and behind.

1234567		
2143576	2467315	4176235
2415367	4276135	4712653
4251376	2471653	7421635
2453167	4217635	4726153
4235617	4126753	7462513
2436571	1462735	4765231
4263751	1467253	

This Peal thus prick'd, will go 84 Changes, and the Treble leading, and the Half Hunt lying next it, and a parting Change (which is a double on the four middlemost of the Six hind Bells) being made, it will go 420, and by making Bobs 5040.

Thus much shall suffice for Peals upon Seven Bells.

I proceed to Changes upon Eight.

Peals of Eight Bells.

Without amusing our selves with what Notes are most Musical, to lie behind, we will come to the Matter of Fact; for those Methods of Peals that are prick'd on Six, may be the same upon Eight, observing only, That Triples and Doubles upon Six, must be Quadruples, and Triples upon Eight.

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Quadruples and Triples.

The Treble hath a dodging Course, the two first, dtwo last Bells always dodge, till hindred by the belle, the two next to theselying still one Change, dge the next, till the Treble hinders them too, hose in the 5th and 6th Places dodge (the Treble ing behind) and those in the 3d and 4th Places wise dodge (the Treble being before, and so Ihindred by the Treble.

12345678	42361875	16847253	14283675
21436587	24638157	16482735	0.4
12346578	42531875		18645273
21436587	24613857	18765432	18462537
24136578	42168375	606.	
42315687	24518357	17354523	16587432
24135678	42163857	-	606.
42315587	41268357	16573824	15684732
24361578	14623875	605.	
42635187	41253857	15678342	18757624
24531578	14628375		606.
42355187	14263857	1735.2648	17856342
24635817	41628375	17536184	
42358571	14268357		15372846
24365817	41623875	13274586	15738264
42638571	46128357	13725458	
2435;871	64213875		13254768
42638517	45123857	12438755	13527485
24635871	64218375	12347856	
42368517	46281357		12436587
24638157	6° c.	24826357	1234567

By.

By this Method the Peal will go 224 Change and by my making of Bobs, it will go 448, 672, 134 The Bob, is a Triple Change at the leading of the Treble, wherein the Bell in the Fourth Place li ffill.

The next that comes to our Observation, an answers to what we first hinted at in the beginning of this Discourse of Peals upon Eight Bells, I mea Precedency in Title, is the

Bob Major.

Plain Quadruples and Triples.

In this all the Bells have a direct Hunting Cour until the Treble leads and then the fix hindme Bells dodge.

123456-8		
21436587	86745231	35172845
24163857	87654321	31527486
42618375	78563412	13254768
46281735	75836142	31527486
6.1827153	57381624	
68472513	53718264	

By this Method this will go 112. And by ma ing Bobs, 224, 336, or 672. The Bob is a Tri Change, as in the foregoing Imperial is specified. making two Extreams, it will go 1344, and wi four Extreams. 2683.

All Peals upon fix Bells, wherein half the Change are Triples, will go upon Eight according to t Method before - going, thus, If it be

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hang to t a P пр upon six, consisting of 360, or 720 Changes, then there must be five Hunts in the Ringing of it upon Eight, the Treble being the first, 2 the Second, &c.

College Bob Major.

Quadruples and Triples.

There are four Ways of pricking thefe. first hath single Dodging behind, and is thus Peal'd.

CC11	- O
The	First.

12345678		
21436,87	56348271	78136524
24163578	53684721	71863542
42615387	35867412	17685324
46251378	38576142	16758342
64523187	83751624	
65432817	87315642	

The Second.

This hath Single Dodging before and behind, thus prick't.

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21436587	42358671	42173865
24163578	24385761	41237856
42615387	42837516	14328765
24551378	24872156	13482756
42563187	42781365	
65432817	24718356	

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De Ringing.

The Third.

This hath double Dodging behind, thus Prickt.

12345678	-	
21436587 24135678 42316587 43261578 34625187 36452817	63548271 65384721 56837412 58673142 85761324 87516342	78153624 71856342 17583624 15786342

The Fourth.

This hath double Dodging before and behind both, thus.

12345678		
21436587	42638571	42167358
24135678	24368751	41263785
42316587	42637815	14627358
24361578	24367185	16423785
42635187	42631758	
24365817	24613785	

These may be prick'd several other ways, but that I omit here for Brevities sake; the Dodging is without Intermission, except an hinderance comes by the Treble; as likewise between two Bells, until Treble parts the Fray. The Bobs are Triple Changes, as the Treble leads; in the 1st, 2d and 6th; the Bell in the 4th Place lies still at the Bobs, and in the 3d, 4th and 5th, that in the 2d Place lies still.

Each of these will go 112 Changes, and by making Bobs 214, 336, or 672.

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allege Triples Dodging both before and behind.

This Peal is the same for Bobs, as the Bob Major, and will go as many Changes by making Bobs, or therwise, as any of the foregoing Four, and is hus Peal'd.

12345678		
21436587 24153678 42513687 24531678 42536187 24563817	42568371 24586731 42587613 24578163 42571836 24517863	42157836 41275863 14725836 17452863

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The Wild Goofe Chafe Triples.

The Explanation shall follow the Peal, intending are to put an end to my Epitome of the Art of Ringig, and therefore shall first present you with this bick'd thus.

12345678		1
65327184	37625481	15327684
21536784	73 65418	13572648
25 163 748	72356148	31752684
52613784	27531684	37125648
56231748	25713648	73215684
63572814	52173684	72351648
36758241	51237648	

In this Change the 4th Bell must first hunt up 18, into the feventh's Place, and then the 4th and 8th Place always dodge behind throughout the Peal, unlest obt when obstructed by the Treble. The Bell that move of e up into the 6th Place, when the Treble moves thence in the down, lies still there, till displaced by the Treble. during which time the two hind Bells dodge, and the five first, go a perfect Hunting-Course. And when 64 likewise the Treble moveth out the 5th place, the five first Bells go a Hunting-course, till it comes down le o there again: By this Method it will go 80 Changes and by Bobs 160, 240, or 480. The Bob is made a in the foregoing Changes.

And here I thought to make an end of the Art of Ringing, but Cynthius aurem vellit, the young Practitioner, whose only Information is hereby aimed at plucks me by the Sleeve, and tells me in the Ear. that the' Peals upon fix, as Triples and Doubles, &c. make excellent Musick upon Eight Bells, 48, 68, 4 1, or 1 8, lying behind: Or, Triples and Double. upon the fix middle Bells, the Tenor lying behind: yet for him who is not arrived to fuch a Perfection of Skill, as to Ring these compleat Peals, the most proper and easy for him are Set-Changes, which are

founded on these Grounds.

First, Placing the Bells Fifths; thus the 4 must hunt up behind the 7, the 3d behind the 6th, and the 2 behind the 5; or the One may hunt down under the other, as the 5 under the 2, the 6 under 3, and 7 under 4: Or if you will, first let a Single next a Double, and then a Triple Change be made on the middle Bells, all coming to the same Effect; for then the Changes will lie Fifths; thus, 1.5, 26, 37 4 8. In the Peal four Concords are to be regarded; the first 1 5 the second 2 6, the third, 3 7, & the fourth 4 8

These four Concords may go the Methods of any Changes upon four Bells; 15 being taken for the Treble; 26 for the Second; 36, for the Third; and ad no

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nt up 18, for the Fourth; and the Concords may change and 8th places with one another, as you List. In which this unless observation is highly necessary, that the two Notes moves of every Concord must constantly attend each other hence in their Motion; that is, whenever one of the two Notes moves, the other must follow it.

Or Secondly, Place the Bells Thirds; thus: The when 14 and 2 must hunt up, or else the 3 5 7 down; or the five the wife on the middlemost Bells let a Triple, Doudows there single Change he made are to one effect; and

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down he or Single Change be made are to one effect; and anges, hen the Bells will lie Thirds; thus, 1 3, 5 7, 2 4, ade al 18. Herein are four Concords observable; as in he former Peal, viz. 13, 57, 24, 68. Thefe raction four Bells, 1 3 being taken for the Treble, 5 7 for the ed at, second, 2 4 for the Third, and 6 8 for the Fourth; Ear, moving in the same manner as before shewed.

, &c. By these Grounds Variety of excellent and Musical 6 8, Changes are to be rung; any Concord may be made a ouble. Hunt, and to move up and down at the beginning.

In Ringing these Set Changes, the Note will lie ection fometimes Fifths, sometimes Thirds, and both, and most ten to Clam them, is admirable Musick: Claming s, when each Concord strike together; which being one true, the 8 will strike as our four Beils, and nake a Melodious Harmony. You may Clam two othree bouts, and then strike as many times Open ternatively one Clam one Pull; and open the next.

de on Vocal MUSICK: Or, Plain and Easy Directions to Sing by Notes, wherein with a little Hop, any one who is Musically given, may be perfected in a floort time.

AUSICK, especially Vocal, has been of such WI high Esteem in all Ages, that it is accound no less than a Divine Science; producing such

Concordance and Harmony, that it cheereth and rejoyceth the Hearts of Men, and is delightful to every Creature. It is certainly an Addition to the Joy in Heaven, where the Saints and Angels fing Halleluja's and Songs of Praises before the Throne of God. St. Austin tells us, that it is the Gift of God to Men, as well as to Angels, and a Representation and Admonition of the fweet Confent and Harmony which his Wisdom hath made in the Creation and Administration of the World. not to Prologue on what every where fo much commends it felf, I shall fumm up what in that Nature is expedient in a few Verses, and so proceed to the Subject Matter, viz.

Nature, which is the wast Creations Soul, That steady curious Agent in the whole, The Art of Heaven, the Order of this Frame Is only Musick in another Name : And as some King Conquering what was his own, Hath choice of various Titles to his Crown, So Harmony on this Score now, that then, Yet still is all that takes and governs Men: Beauty is but Composure, and me find Content is but the Concord of the Mind; Friendship the Unison of well tun'd Hearts, Honour the Chorus of the noblest Parts. And all the World's good on which we can reflect,. Is Musick to the Ear, or to the Intellect.

There are to make up a Musical Harmony, computed seven Notes; now in the easiest way express'd by the 7 Letters of the Alphaber, viz. A, B, C, D, E, F, G. And if it so fall out, that a Voice or Musick gradually rise or fall more than Seven Notes; the subsequent 8th, 9th, or 10th, will in the same order proceed, bearing the like Relation each to

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th and the other, as the 1st, 2d, 3d, &c. to which they ful to respectively are Eights. And so that from hence to the every Eighth Note, being in Nature a like, is called s fing by the name of that to which it is an Eighth; how-hrone wer above or below it: and for the better under-diffe of fanding the various Musical Compositions out of resen. hese Notes. Musicians have devised and made use t and of Lines and Characters, that as a Language, they may be understood and Communicated by Book, for he Instruction of the unlearn'd : As in the following Introductory Example, you will perceive;

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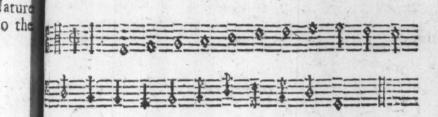
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In this Example, before I come nearer to Pariculars in general, observe first, that those Chaafters you observe at the beginning of the Lines, me termed Cliffs or Claves, Keys to open and figlify what part or pitch of Voice, viz, the Treble, Mean or Baffe properly the Notes belong to; as likewife on what Line or Space the 7 Letters expressing he Notes is placed. And then again, the five lines and Spaces between them are useful, as Steps r Gradations, whereon the Degrees of Sound are be expressed, or the Notes ascending and defending: Then Thirdly, the Characters placed on the five Lines, express the Notes themselves, or hand for them; and their Difference in form, fignify their Quality, whether they be longer or shorter.

Your Care must therefore be in this, and the Chapters following, to consider well in the first Place, the Gamut, to learn the use of the Cliffs: Next to that, the Names of the Lines and Spaces,

whereby

whereby you may readily know how to call a Note as it stands on any of the Lines, and thirdly, how you should Sing those Notes in right Tune, as wel by degrees, as leaps; and last of all, to give each

Note its due Quantity of Time.

This in general, being observed, and seriously weighed; that you may take a Prospect of you Task, I from it proceed to the Gamut, fo far as I think necessary to my present Design, which is to ler you understand by it the use of the Cliffs, with the Order and Distances of the Notes, as the Parts in a Body lie together.

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ots The Consistence of this Scale is of Eleven Lines, with the intermediate Spaces, and contains the Plaes of all the Notes that are made use of Ordinarily each of Vocal Musick. In the first Column you will find placed the Old Notes, being fet down, that you may he what they are. And in the fecond Column, you the shewed which of the Seven Letters properly belongs to each Line and Space. The Third Column s to matains the Cliffs, or figned Keys, demonstrating with low many Degrees of Notes they are one above Parts mother, which once Circumspectly observed and mown, the other degrees of Distance are with more ase computed. And here

Five of these Lines, with their Spaces, are usually sufficient for the pricking down any Tune, for which reason this Scale is divided into three Parts or staves, compass'd in with Arch'd Lines; and of these the lowermost five are proper and belonging to the Bass, and are known by this mark on the Line of F. usually, therefore called the F. Fa-ut Cliff or Key; because it opens to us the letters standing on the other Lines and Spaces, as nthe enfuing Chapter will appear. As for the uppermost five Lines, they contain the highest of the Notes, and so belong to the Treble or the highest Part. The Key to which is marked in this manper, and fometimes G. S. on the lower Line

but Done.
The middle Part or Tenor, usually takes in two of the upper Treble Lines; also two of the Bass lines, that in the middle only being proffper to it t felf, known by this mark placed on it for the Cliff or Key, its place being properly in Ithe midde Line, however it is many times placed on one or other of the other Lines; and note which ever the Cliff stands on, that Line is the Place of C. and accordingly the other Lines are to be reckon'd: sometimes likewise we find the Bass Cliff is remo-

ved to the middle Line, and upon fuch remova tht Line is F. &c. and tho' this manner of shifting the cliff is troublesome, yet Custom and Practic having made the knowing of them necessary, yo ought to be very well understanding in the manne of them, if you would be well skilled in Vocal of Instrumental Musick.

The Names of the Lines and Spaces.

Having thus far plainly proceeded to Introduc the Beginner or Learner, I now lead a step furthe to the Names of the Lines and Spaces, which is thing very material in the beginning of Learning For in the Gam-ut having feen how the Notes lie to gether in a Body, it will be proper to know how you must take them into Parts according to the se veral Cliffs, which are three in Number, three be ginning usually, as most commonly with the upper most. And in these your first Care will be to lear the Names of the Lines and Spaces, which ar opened to you by the Cliff or Key; and these are in Number Seven, expressed in the 7 Letters, A, B C, D, E, F, G, which for a more perfect Sound fake, and other Reasons to be given; you must pronounce or call La, B, Ce, D, Le, Fá, G. and this Fâ must be pronounced broad, Oc.

These and the like Names the Notes receive to two Reasons; the first is, because the Voice is be fent forth in expressing some Syllable; as likewis that this Number of Notes might be known by many distinct Names, as for their Places in the erfect Cliffs, See the Plate following.

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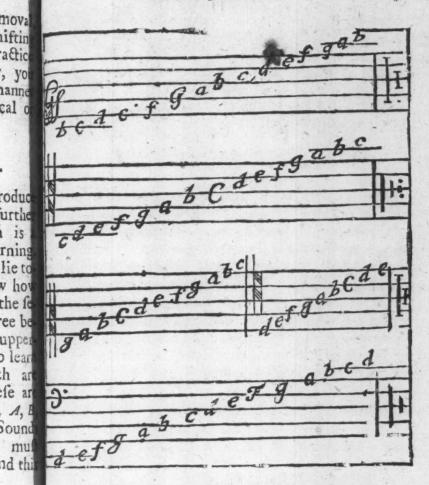
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And it will be very necessary, That you should ive for egin with and keep to one Cliff at the first, as it is bet leases you to chose, or as either of the three best kewil grees with your Voice for a high or low Pitch.

by a Having gone through all the Rules, and being in the erfect in that, then it is fit you should proceed the other. There is no need you should meddle ttrouble your felf with the Tenor or C Cliff, because keeps no certain Place; you must observe howver, before you go further to be ready at naming he Lines and Spaces, fo readily to tell, as foon as

you

you look on them, what Letter any Line or Space

called or named by.

As for the rest, he Cliff leads you to them, so beginning there, and Ascending, you will find the Letters lying in Order, and in descending; it only your naming them backwards.

The dash Lines, which you perceive above an below, are added only when the Notes Ascend abov

the Staff, or descend below it.

Directions as to the Distances of one Note from another, as to Sound.

In this Case, the Distances are not all equal, by that in the rising and falling of any Eight Note there are two lesser Distances; and these are name Semitones, or the Half Notes, which must be we observed and known, in remarquing their Places is the Staff of Lines; and the better to have them i your Memory at all times, take a Rule from certain Rhimes that point at their Places, viz.

In every Octave there are half Notes two, Which do to us their proper Places shem; One half Note you will find from B to C, The other half one lies twist Fa and Le.

The Octave mention'd as an Eighth, and the Rule denotes the ordinary Places where you are thing the Half Notes, when there are no Flats of Sharps placed or fet in the Lines, viz. between and Gc, and twixt Le and Fâ; these Flats and Shaps you will find thus marked and whe the Semitones, or Half Notes are shifted, they are known by them when they are found upon the Line

Observe, that in these Staves or Lines, you find the Notes Gradually Ascending, of which the Pairs marked with Arches are half a Note distant.

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Observe, that in these Staves or Lines, you find e Notes Gradually Ascending, of which the Pairs urked with Arches are half a Note distant.

> This Marginal Figure shews to the Eye the Distance of the Seven Notes one from another, the Letters Guiding or Directing to the Particulars, whereas you perceive D. B, Ce, and La, Fa, lying near unto C. the rest, so must their Sounds be nearer when you come to Tune your Voice in Harmony, &c. and the

better to express with your Voice. d fo observe the Difference between half and hole Distances of Notes, Sing often over these Monasyllables, viz, One, Two, Three, Four, Five, , distinctly, as is to be observed in the Tune of Bells; and when you have done it many times, ng only One, Two, Three, Four, and there stop, reating three four by themselves, for they are Semiwe distant in Sound, and the rest are alone, or a hole Note distant each from the next; so that by little Judicial Observation you will perceive the ree and four Bells to be a leffer distance in Sound an the other.

The Figures or Numbers, 1, 2, 3, 4, 5, 6, in the regoing Marginal Figures, shew the several di-

stances to the Eye of the fix Notes where Le is the the first, D the second, &c. and the third and fourth of are Ce, Be, distant half a Note or Tune.

Directions for the Tuning of Notes, &c.

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The properest and most easy way for Tuning you Notes rightly, must be considered either in following the Voice of one skill'd in Mutick, or Singing, of Some such Tuned Instrument, as is accommodate with Frets or Keys, which are the readiest and only ways as yet made use of by Practitioners. That a a Master being most common, but where none these can be had by the Party desirous to Learn, shall lay down the following Directions, which wi very much Instruct one that hath a Musical Ea especially such a one as has heard, and can sing the Notes of the Six Bells, of which I presume, the are few, whose Genius leads them to the Science of Musick, are Ignorant.

Let me put then, Supposing that you can Sin One, Two, Three, Four Five, Stw., right; then shall by the help of these Notes, proceed to set you fu ther in the right, and lead you to all the rest.

Consider well then, that beginning to Sing t first Note, let it stand on what Line or Space it wi you may fing it with what Tune you think fit, ther high or low, (as to the pitch of your Voice but with this Caution, that you reckon how man Notes you have above or below it, that your Voi in its pitch may be so managed as to reach them be withour Squeaking or Grumbling, or any harsh rough Indecency of Sound.

For applying which fix Notes, observe this fir

Example;

Make your beginning with the first Bar, at tw with a high Voice Sing the Six Notes you view the Staff, divers times calling them over by the ar Number, viz. One, Two, Three, Four, Five, Six,

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Six,

is the the foregoing Section; when that is done, Sing fourth fame Notes by their Names, viz. La, G, FA, Les Ce, in the Tune of fix Bells.

I Bar.

his fin 2. In the second and third Bars, you must Sing ar, ar two first Notes of the fix by themselves, forand backward: Repeat all fix in the fourth by the, and in the fifth and fixth Bars let the two laft otes be repeated, viz. D, Ce, forward and back(8)

ward, and these Notes are a whole Tone distant and by often repeating these Notes in the second third, fourth and fifth Bars, you will be better ea pable to know and distinguish their distance from the Leffer.

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In the Seventh Bar repeat the last three often ov after all the fix. First, down, Le, D, Ce, Le, I Ce, &c. and then proceed backwards, as Ce, D, I Ce, D, Le, &c.



Observe in this Eighth Bar, after all fix, often repeat the four first, as, La, G, Fa, Le, and who you fing them particularly, observe the two Not Fâ, Le, by reason their Distance is a Semitone; when fore you must take Notice in the Ninth Bar Sing them by themselves so many times as you c conveniently fix them in your Memory, as to the Distance, for in this you will find it somewh difficult to Sing the half Notes true in their prop Places.



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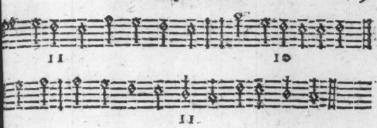
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Observe here in the tenth Bar, to Sing the sour list Notes in their order downwards and upwards, and in the Eleventh Bar you must first Sing the six lotes in their proper order: After this, repeat the sur last Notes, viz. Fâ, Le, D, Ge, taking Notice bleave out the two sirst Notes, viz. La, G, conmually observing to Mark the Semitone between the, Le, which two Notes you must Sing by themlives in the Twelsth Bar.



Take Notice now further, that in the thirteenth you fing Fâ, Le, D, Ce, down and up, as you them pricked, and observe especially the three t, viz. Fâ, Le, Fâ, for this reason, viz. that it is a mmon close or ending of Tunes.

Also observe, if in any Place you doubt you og right a repeated part of the six Notes, premised are noted in the Eleventh and Thirteenth Bars: tall the six Notes be Sung over again in order, and proceed distinctly to try at the Parts themselves.

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The fecond Example.

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You having now gone over the former Examples, must proceed by the same clue of Six Notes to detend three Gradations or Steps lower, viz. to G. which is to the second Note of the first six, an

stave or Eighth.

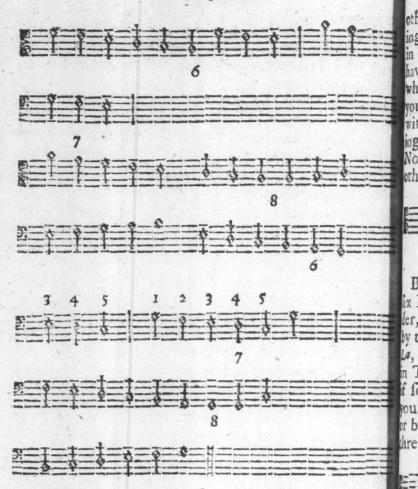
First then, in the first Bar you must begin with shigh pitch in your Voice, and so having Sung, as in the former Examples, La, B, Fà, Le, D, Ce, leave out La, and only Sing the Five last: Then repeat only three in the Second Bar, viz. the three last, La, D, Ce, calling them now not by those Names, but by that of One, Two, Three, and though the Names are altered, you must not alter the Tune or Tone.

Having thus proceeded, observe in the third Bar o Sing the Six Notes from Le to G, naming them is the Bells, One. Two, Three, Four, Five, Six: In such a manner, that the three first of these be in Tune, the same with the three last of the former six; after, as I said, you have Sung them as the sells, viz. One, Two, Three, Four, Five, at least four rive times, then as often Sing them again by their roper Names, viz. Le, D, B, Ce, La, G.

Observe again, that in the fourth Bar you Sing be four first Notes, La, D, Ce, B, about four times wer; after that repeat Ce, B, by themselves taking bod notice of their Distance or Differences, which

a Semitone like to Sa, Le, above, &c.

Consider once more, as to this Example, as to be fifth Bar, after all the six are Sung by you, repeat he last four, viz. Ce, B, La, G, do it often over. Reping them up in the same Tone they had in all ix, by which means Ce and B will be distant half a lote, whereupon Sing them backward, viz G, La, Ce, and at the end repeat D, Ce, as you did Le last the thirteenth Bar before set down.

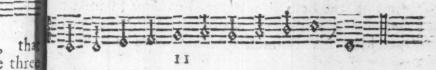


Observe further now in these Six Bars, that when you have Sung all six in order, Sing the three sirst Le, D, Ce, and there stop; then proceed to Sing I those three over again in the same Tune, not calling ix them Le, D, Ce, but Three, Four, Five; do it severa from times, and so proceed to the Seventh Bar, adding ise two Notes above, and Sing them on the sive Bells offer viz. One, Two, Three, Four, Five, three or sour times for then call them by their Names, viz. G, Fd, Le, D well Ce, then proceed to the Eighth Bar, and add to the in an other

other five, D, La, G, to make up an Offave, keeping in your Mind the Distances, as you Sing them in the former Examples; and by this means you have the whole Offave or Eight Notes from G to G, which must be practised down and up, and when you are perfect in it, so as to sing your Distances true with the Semitones in their right Places, the following Directions will lead you through the rest of the Notes to Sing any other Offave, beginning at any other Letter.



Begin at Le again in the Ninth Bar, and begin the ix Notes, viz. Le, D; Ce, B, La, G, in proper orler, that done, repeat the two last Notes, viz. La, G, by themselves; so proceed to the tenth Bar, and Sing la, G, Fâ, Le, D, Ce, fo that La and G, may be the same n Tune as you found them in the former fix; and f so be your Voice will not reach Ce, at the pitch ou began the first Bar, then fing as far as you can, w begin at Le, at the ninth Bar higher, Singing thefe aree last Bars distinctly from the Foregoing.



o Sing In the Eleventh Bar you must Sing backward your callin ix last Notes, viz. Ce, D, Le, Fa, G, La, rising severa from Ce, to La, so going one step backward to G. adding fife to Ce, as in the foregoing fifth Bar, which is an Bells offave to the lower Ce. And thus much may fuffice times for the Beginner to practife on, which, if Le, D well understood, will bring him in to Sing Notes to the in any Tune;

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Of COCK-FIGHTING.

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Herein let us first observe the choice of a Cock of the Game, directed by these four Characters

following: That he be

1. Of a strong shape, proud and upright, and for this the Middle-siz'd, neither too small or too large, is best, because most matchable, strong and nimble His Head small like a Sparrow-Hawks; his Eye large and quick; Back strong, crook'd at the fetting on and coloured as the Plume of his Feathers; the Beam of his Leg very strong, and colour'd as his Plume; Spurs long, rough and sharp, hooking inward.

2. Of a good Colour, and herein the Gray, Yellow, or Red Pyle, with a black Breast, are to be preferred; the Pyle rarely good, and the White and Dun never. A Scarlet Head is a demonstration of

Courage, but a Pale and wan of Faintness.

3. Of Courage true, which you shall observe by his proud, stately, upright standing and walking

and his frequent Crowing in his Pen.

4. Of a sharp and ready Heel, which (in the O pinion of the best Cock-Masters,) of high Estimation a sharp-beel'd Cock, tho' somewhat false is better (as dispatching his Business soonest) than a true Cock with a dull Heel.

For Breeding, the best season is from the Moon's encrease in February, to her encrease in March. The March-Bird is best. And now first get a perfect Cock so a perfect Hen, as the best Breeding, and see the Hen be of an excellent Complexion (i. e.) rightly plumed, as black, brown, speckt, grey, grissel, or yellowish; tufted on her Crown, large Bodied. well poked, and having Weapons, are Demon-Atrations of Excellency and Courage. Observe further

ther her Comportment, if friendly to her Chickens,

and revengeful of Injuries from other Hens.

When the Cock and Hen-Chickens, (going till now promiscuously one with another) begin to quarrel and peck each other, part them and separate their Walks: And the best for a Fighting Cock, are private and undisturbed Walks, as Wind-mills, Water-mills, Grange-Houses, Park-lodges, &c. and their Feeding Place on soft Ground or Boards; and have for his Meat white Corn, or White-bread-Tosts, steep'd in Drink, or Urine, is good, both to Scower, and Cool them. And do not debilitate and behauch his Courage and Strength, by having too many Hens to walk with with; three Hens are enough for one Cock.

If before they be fix Months old, any of your chickens Crow clear and loud, and unfeafonable, then to the Pot or Spit with them, they are Cowards; the true Cock is long e're he gets his Voice, and when he has gotten it, keeps good and judicious.

Time in Crowing.

Next observe your Roosling-Perch, for this makes or marrs a Cock; for forming of which, consult the best Cock-Masters Feeding-Pens, and the Perches there, and accordingly proportion your own; take care that the Ground underneath the Perch be soft, for if it be rough and hard, in leaping down he will hurt his Feet, and make them Gouty and Knotty.

For the Dieting, and Ordering of your Cock for Battle, observe these Rules. Let your Oock be full two Years Old, then in the latter end of August, take up and Pen him, (it being now Cocking-time till the end of May) and see that he be sound, hard

feather'd, and full fummed.

The first four Days after Penning, Feed him with the Crumb of Old Manchet cut into iquare bits, thrice a Day, and with the Coldest, and Sweetest Spring-water that can be had. And after you think by

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died mone further by this time he is throughly purged of his Corn, Worms, Gravel, and other course Feeding, take him in the Morning out of the Pen, and let him Sparr with another Cock some time to heat and chase their Bodies, break Fat and Glut, and fit them for Purgation; first having covered their Spurs with Hots of Leather, to hinder their Wounding, and

drawing Blood of one another.

B

After they have sufficiently sparred, that they pane again, take them up, and remove their Hots, and prepare them for a sweating Bout thus: Take Butter and Rosemary, sinely chopt, and White-sugar-eandy, mixt together; and give them the quantity of a Wallaut; which will Scower, strengthen and prolong Breath: Then having (purposely) deep Straw Baskets, fill them half way with Straw, put in your Cock, and cover him with Straw to the top; lay the Rid close, and let him stove till the Evening. At Five a Clock take him out, and lick his Head and Eyes with your Tongue, then Pen him, and fill his Trough with Manchet and hot Urine.

After this, take a Gallon of Wheat, and Oatmeal-flower, and with Ale, half a Score Whites of Eggs, and Butter, work it into a stiff Paste, bake it into broad Cakes, and when sour days old, cut it

into square Bits.

The Second Day after Sparring, bring your Cock anto a Green close, and shew him in your Arms a Dunghil Cock, then run from him, and allure him thus no follow, suffering him now and then to strike the Dunghil Cock, and so Chase him up and down for half an Hour, tilt he pants again; and thus Heated, carry him home, and scout him with half a Pound of Fresh-butter, beaten with the Leaves of the Herd of Grace, Hysop, and Rosemary, to the Consistence of a Salve, and give him the quantity of a Wallnut; then Stove and Feed him as above. And thus for the first Fortnight, Sparor Chase him every other Day.

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The second Fortnight, twice a Week will be enough to Chase or Spar your Cock: Observing that you. Stove and Scour him, proportionable to his Heating.

The third and last Fortnight (for fix Weeks is long enough) feed him as before, but do not Spar him, but Chase him moderately twice, or thrice, as before; then roll his aforesaid scouring in Brown-sugar-candy, to prevent his being Sick; rest him

four Days, and then to the Pit.

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Now Gentlemen, Match your Cock carefully, or what you have hitherto done is nothing. And here observe the Length, and Strength of Cocks. The Length is thus known: Gripe the Cock by the Waste, and make him shoot out his Legs, and in this Posture compare, And have your Judgment about you. The Strength is known by this Maxim, The largest in the Garth, is the strongest Cock. The Dimension of the Garth, is thus known: Gripe the Cock about from the Joynts of your Thumb, to the Points of your great Finger, and you will find the Disadvantage, The weak long Cock is the quickest easiest Riser, and the short strong one the surest Striker.

Thus being well Matcht, accourre him for the Pit, clip his Main off close to his Neck, from his Head to his Shoulders. Clip his Tail close to his Rump, the Redder it appears the better. His Wings sloping, with sharp Points; scrape smooth, and sharpen his Spurs; leave no Feathers on his Crown:

then moisten his Head with Spittle.

The Battle done, fearch and suck your Cock's Wounds, and wash them well with hot Urine; then give him a Roll of your best Scouring, and stove him for that Night. If he be swelled, the next Morning suck and bath his Wounds again, and pounce them with the Powder of the Herb Robert, through a fine Bag; give him an handful of Bread in warm Urine, and stove him, till the swelling be down. If he be hurt in his Eye, chew a little ground Ivy, and spit the Juice in it; which is good for Films, Hams,

Warts

(B)

Warts, &c. Or if he hath veined himself in his fight, by narrow striking, or other cross blows, when you have found the Hurt, bind the soft Down

of Hair to it, will cure it.

When you visit your wounded Gocks, a Month or two after you have put them to their Walks, if you find about their Heads any swollen Bunches hard and blackish at one end, then there are unsound Cores undoubtedly in them; therefore open them, and with your Thumb crush them out, suck out the Corruption, and fill the Holes with fresh Butter; and that will infallibly cure them.

Cures for Distempers incident to the Cock or Chick of the Game.

Proceeding from corrupt Meat, and want of Bathing, oc. Take Pepper beaten to Powder, mix it with warm

Water, and wash them with it.

For the Roup; a filthy swelling on the Rump, and very contagious to the whole Body, the staring and turning back of the Feathers is its Symptom. Pull away the Feathers, open and thrust out the Core, and wash the Sore with Water and Salt, or Brine.

For the Pip; visit the Mouth, and examine what hinders your Cocks, Hen, or Chicks feeding, and you'll find a white thin Scale on the Tip of the Tongue, which pull off with your Nails, and rubbing the Tongue with Salt, will cure it.

For the Flux; proceeding from eating too moist Meat, give them Pease-Bran scalded, will stop it.

For the Stoppage of the Belly, that they cannot mute; anoint their Vents, and give them either small bits of Bread or Corn, steep'd in Urine of Man.

And now I have one Word of Advice to him that is a Lover (or would be so) of this RoyalSport;

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Ban Ve sport; and then have done: Come not to the Pit without Money in your Breeches, and a Judgment of Matches; DONE and DONE is Cock-pit LAW, and if you venture beyond your Pocket, you must look well to it, or you may lose an Eye by the Battle.

Of FOWLING.

HE Ingenious Fowler, like a Politick and fagacious Warrier, must first furnish and store himself with those several Stratagems and Engines, as suit with the Diversities of Occasion, i, e. Time, Place and Game, or else he cannot ex-

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And first of Nets, which must be made of the best Pack-thread; and for taking great Fowl, the Meshes must be large, two Inches at least from point to point, the larger the better, (provided the Fowl creep not through) two Fathom deep, and fix in length, is the best and most manageable Proportion; Verged with strong Cord on each side, and extended with long Poles at each end made on Purpose. But for small Water-foul, let your Nets be of the smallest and strongest Pack-thread, the Meshes fo big, as for the great Fowl, about two or three Foot deep: Line these on both sides with false Nets, every Mesh a foot and half Square. For the Day Net, it must be made of fine Pack-thread, the Mesh an Inch square, three Fathom long, and one broad, and extended on Poles according to its Length, as aforesaid.

Birdlime is the next, and thus made. Pele the Bark of Holly from the Tree at Midfummer, fill a Vessel, and put to it running Water; boil it over the Fire till the Grey and White Bark rise from the

Green

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Green; take it off the Fire, drain the Water well away, and separate the Barks, and take the Green, lay it on some moist Floor and close Place, and cover it with Weeds; let it lye a Fortnight, and in that time it will rot, and turn to a filthy slimy Substance: Then put it into a Morter, beat it well; take it out and wash it at some running Stream, till the Foulness is gone: Then put it in a close Earthen Pot; let it stand Four or Five Days, look to its Purging, and scum it: When clean, put it into another Earthen Pot, and keep it close for use.

Your Setting Dog must be Elected and Train'd thus: He must be of exquisite Scent, and love naturally to hunt Feathers. The Land Spaniel is best, being of good nimble size; and Couragious mettle, which you may know by his Breed; being

of a good Ranger, &c.

The first Lesson is, to make him Grouch and lie down close to the Ground; its done by frequent laying him on the Ground and crying Lie close; upon his doing well, reward him with Bread; and on the contrary chastise him with Words, not Blows.

Next, To creep to you with his Body and Head close upon the Ground, by faying, Come near, Come nearer, Come nearer, or the like Words; to understand and do it, entice him with shewing him Bread or the like: Thrusting down any rising part of his Body or Head, and roughly threatning him; if he slight that, a good Jerk or two with a slash of Whipcord, will reclaim his Obstinacy.

Repeat his Lessons, and encourage his well doing. And this you may exercise in the Fields as you walk, calling him from his busic Ranging to his Duty. And then teach him to follow you close at the Heels in a Line or string, without straining.

By this time he is a Year old, now (the Season fit) into the Field, and let him range, [obediently.] If he wontonly bable or causelessy open, correct him by

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by biting foundly the Roots of his Ears, or Lashing. Well As foon as you find he approaches the Haunt of the reen, Partridge, known by his Whining and willing, but , and not daring to open, speak and bid him, Take beed: If nd in notwithstanding this he rush in and Spring the Parflimy widge, or opens, and so they escape, correct him sewell: verely. Then cast him off to another Haunt of a 1, till Covy, and if he mends his Error, and you take any arthby drawing your Net over them swiftly, reward him to its with the Heads, Necks, and Pinions. into

As for the Water-Dog, the Instructions above for the Setter will serve; only to setch and bring by losing a Glove, or the like; keep a strict Subjection in him, and Observance to your Commands.

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The longest Barrel is the best Fowling-Piece, Five and half, or six foot long, with an indifferent Bore, under an Harquebuse; and shooting with the Wind, and side-ways, or behind the Fowl, not in their Faces, is to be observed; having your Dog in Command not to stir till you have shot.

A Stalking Horse for shelter, to avoid being seen by shy Fowl, is an old Jade trained on purpose; but this being rare and troublesome, have recourse to Art, to take Canvas stuft and painted in the shape of a Horse grazing, and so light, that you may carry him on one Hand (not too big) Others do make them in the Shape of Ox, Cow, for variety; and Stag, Trees, &c.

The great Fowl, or those who divide the Foot, reside by shallow Rivers sides, Brooks and Plashes of Water; and in low and boggy Places, and sedgy, marshy, rotten Grounds. They also delight in the dry Parts of drowned Fens, over-grown with long Reeds, Rushes and Sedges; as likewise in half Fens, drowned Moors, hollow Vales or Downs, Heats, &c. Where obscurely they may lurk under the shelter of Hedges, Hills, Bushes, &c.

The lesser, or Web footed, Fowl, always haunt drowned Fens, as likewise the main Streams of Rivers not subject to Freeze, the deeper and broader the better; (tho' of these the Wild-Goose and Barnacle, if they cannot sound the depth, and reach the Ouze, change their Residence for shallow Places, and delight in Green Winter Corn, especially if the Lands ends have Water about them:) Small Fowl also frequent hugely little Brooks, Ponds, drowned Meadows, Pastures, Moors, Plashes, Meres, Loughs, and Lakes, stored with unfrequented Islands, Shrubs, oc.

How to take all manner of Fowl or Birds.

For taking the first (I mean the greater Fowl) with Nets, observe in general this; Come two Hours before their feeding Hours, Morning and Evening; and spreading your Net on the Ground smooth and flat, stake the two lower ends firm, and let the upper ends be extended on the long Cord; of which the further end must be fastned to the Ground, three Fathoms from the Net, the Stake in a dierest Line with the lower Verge of the Net, the other, ten or twelve Fathom long, have in your Hand at the aforefaid distance, and get some shelter of Art or Nature, to keep you from the curious and shy Eye of the Game; having your Net so ready, that the least pull may do your work; strew'd over with Grass as it lies to hide it. A live Hern, or forne other Fowl lately taken, according to what you feek for, will be very requisite for a Stale. And you will have sport from the Dawning, till the Sun is about an Hour high; but no longer, and from Sun-set till Twilight; these being their feeding times.

For the small (Water) Fowl. Observe the Evening is best before Sun-set. Stake down your Nets on each side the River, half a foot within the Water,

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ven-Nets ater, the lower part so plumb'd as to fink no further; the upper Slantwise shoaling against, but not touching by two foot, the Water, and the Strings which bear up this upper side, fastned to small yielding Sticks prickt in the Bank, that as the Fowl strike may ply to the Nets to intangle them. And thus lay your Nets (as many as you please) about twelve score one from another, as the River or Brook will afford. And doubt not your Success. To expedite it however, a Gun fired three or four times in the Fens and Plashes, a good distance from your Nets, will affright and Post them to your Snares; and so do at the Rivers, when you lay in the Fens.

Winter time is the most proper for taking all manner of small Birds, as flocking then promiseuoully together, Larks, Lennets, Chaffinches, Goldfinches, Tellow-hammers, &c. with this Birdlime, put to a quarter of a Pound of Birdlime, an ounce of fresh Lard, or Capons-greafe, and let it gently melt together over the Fire, but not boil; then take a quantity of Wheat-Ears, as you think your use shall require, and cut the straw about a foot long besides the Ears, and from the Ear lime the Straw fix. Inches; the warmer it is the less discernable it will be. Then to the Field adjacient, carrying a Bag of Chaff, and thresh'd Ears, scatter them twenty Yards. wide, and stick the lim'd Ears (declining downwards) here and there; then traverse the Fields,. disturb their Haunts, and they will repair to your Snare, and pecking at the Ears, finding they flick to them, mount; and the lim'd Straws lapping under their Wings, dead their flight, they cannot be difengaged, but fall, and be taken they must. Do. not go near them till they rife of their own accord, and let not five or fix entangled lead you to spoil your Game, and incur the Loss of five or six Dozen.

Lime-Twigs, is another Expedient for taking of great Fowl, being Rods that are long, small, strair, and

and pliable, the upper part apt to play to and from Thus to be being befmeared with Birdlime warm. used, observe the Haunts of the Fowl, have a Stale. (a living Fowl of the same kind you would take) and cross pricking your Rods, one into, and onother against the Wind sloping, a foot distant one from the other; pin down your Stale, some distance from them, tying some small string to him, to pull and make him flutter to allure the Fowl down. If any be caught, do not run prefently upon them, their fluttering will encrease your Game. A well taught Spaniel is not amiss to retake those that are entangled. and yet flutter away. Thus likewise for the Water. confult the Rivers depth, and let your Rods be proportionable; what is lim'd of them being above the Water, and a Mallard, &c. as a Stale placed here and there, as aforesaid. You need not wait on them, but three times a Day visit them, and see your Game; if you miss any Rods (therefore know their Number) some Fowl entangled is got away with it, into some Hole, &c. and here your spaniel will be ferviceable to find him:

For Small-Birds, a Lime-Bush is best; thus: Cut down a great Bough of a Birch, or Willow-Tree, trim it clean; and lime it handsomely, within four Fingers of the bottom: Place this Bush so ordered, in some Quick-set, or dead Hedge, in Springtime: In Harvest, or Summer, in Groves, Bushes, Hedges, Fruit-trees, Flax, and Hemp Lands: In Winter, about Houses, Hovelis, Barns, Stacks, &c. A Bird-call is here also necessary, or your own indu-

strious Skill in the Notes of feveral Birds.

And because Gentlemen who have Fish-ponds, wonder they lose so many Fish, and are apt to Cenfure sometimes undeservedly their Neighbours, when it is the insatiable Hern that is the true Cause, I shall next lay down the best and most approved way of taking the great Fish-devouring Hern, whose

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whole Haunt having found, observe this Method to take him. Get three or four small Roaches, or Dace, take a strong Hook, (not too rank) with Wyre to it, and draw the Wyre just within the Skin, from the side of the Gills to the Tail of the said Fish, and he will live four or five Days, (If dead, the Hern will not touch it.) Then have a strong Line, of a dark Green-silk, twisted with Wyre, about three Yards long, tie a round Stone of a Pound to it, and lay three or four such Hooks, but not too deep in the Water, out of the Herns wading; and two or three Nights will answer your Expectation.

The several Ways of taking Pheasants.

You must learn and understand the several Notes of a natural Pheasant Call, and how usefully to apply them. In the Morning just before or at Suntising, call them to feed, and so at Sunsetting: In the Forenoon and Asternoon, your Note must be to Cluck them together to Brood, or to chide them for

straggling, or to notify some danger at Hand.

Thus skill'd in their Notes, and by the Darkness, Solitariness, and strong undergrowth of the Place affured of their Haunts, closely lodge your felf, and foftly at first call; lest being near you, a loud Note affright them; and no Reply made, raise your Note gradually to the highest; and if there be a Pheafant in hearing, he will answer you in as loud a Note. Be fure it be Tunable. As foon as you are answered, creep nearer to it; if far off and a fingle Fowl, as you call, and approach; fo will the Pheafant. Having gotten fight of her on the Ground or Perch, cease calling, and with all Silence possible. spread your Net conveniently, between the Pheasant and you, one end of the Ner fallned to the Ground. and the other end hold by a long Line in your hand. by which you may pull together, if strained; then

call again, and as you see the Pheasant come under your Net, rife and shew your felf, and affrighting her, she will mount, and so is taken. Thus if on the contrary you have divers Answers from several Corners of the Coppiee, and you keep your Place and not stir, they will come to your Call, and then having a pair of Nets, spread one on each side, and do as before. Your Nets, must be made of Green or Black double-twin'd Thread, the Mesh about an Inch square, between Knot and Knot, the whole Net about three Fathom long, and feven Foot broad, verged with strong small Cord on each side and ends,

to lie hollow and Compass-wife. -

The next Way of taking Pheafant-powts is by Driving; thus. Having found the Haunt of an Eye of Pheasants, known by the Barrenness of the Place, Mutings and loose Feathers, then in the little Paths and Ways, like Sheep-tracks, they have made, place your Nets (taking the Wind with you) a-cross these Taths hollow, loose and circularly, the nether part fixt to the Ground, and the upper side hollow, &c. as aforesaid: Then to their Haunt, and there call them together. if scattered; then with a Driver, an Instrument like that of ver Cloath-dreffers, rake gently the Bushes and Boughs is (about you, the Powts will run, and stop and listen; Not then give another rake, and so you will drive them will like Sheep into your Nets: Observe in this Secrecy, Nun Time and Leisure, or you spoil your Sport; Secre- St cy in concealing your self from being seen by them; price and Time and Leifure, by not being too hafty.

Lastly, for taking Pheasants with the Lime-Bush or then Rods, order these as I have before prescribed; they your Rods about twelve Inches long, and your Bush Fo containing not above eight Twigs, with a pretty hear long Handle, sharpned to stick in the Ground, Lime or Bushes, Shrubs, &c. and let it be planted as near you

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to it oun nder the Pheafant pearching Branch as may be. Place your Rods on the Ground, near the Bush; for when f on some are taken below by the Rods, they will scare p the others to get on the Bushes to seek what's become of their Fellows, and there become your then Prey themselves.

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For taking Partridge.

You must first find the Partridges Haunt. Which s mostly in flanding Corn-fields, where they breed; s likewise in Stubble, after the Corn is cut, espegally Wheat-stubble, till it is trodden, and then hey repair to Barley-stubble if fresh; and the Furrows amongst the Clots, Brambles and long Grafs, re sometimes their lurking Places, for Twenty and pward in a Covy. In the Winter in up-land Mealows, in the dead Grass, or Fog under Hedges, among Mole-hills, or under the Roots of Trees, &c. Various and uncertain are their Haunts. And tho' ular some by the Eye, by distinguishing their Colour from the Ground, others by the Ear, by hearing the their cock call earnestly the Hen, and the Hens answering, red; and chattering with Joy at meeting, do find Partridge; at of yet the best, easiest and safest way of finding them ughs is (as you do the Pheasant) by the Call or Pipe: ten; Notes seasonable, as before prescribed, and they them will come near to you, and you may count their recy, Number; and to your sport.

ecre- Surround your Covy, prepare your Nets, and nem; ricking a stick fast in the Ground, tie the one end to it, and let your Nets fall as you walk briskly round without stopping, and cover the Partridge; then rush in upon them to frighten them, and as they rife they are taken.

Bush For taking them with Birdlime, thus; Call first retty near the Haunt; If answered, stick about your lime struck.

ound, lime-straws, a-cross in Ranks at some Distance from s near you; then call again, and as they approach you, they

This way is used most successfully in Stubble-fields, while from August to September: And Rods in Woods, sti

Pastures, &c. as for the Pheasant.

The most pleasant way of taking Partridge is en with a Setting-Dog, who having fet them, use your new Net, and by these Rules and Method, the Rails, and Quails, Moor-poots, &c. are to be taken; and are for a S Hawks flight too. And here I must make an end of other the most material part of Fowling.

(f FISHING.

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T has been the Method of this whole Treatife ie I to divide the several distinct Heads of each Re-like creation into three Parts, to render the Observations ing and Rules the more plain and eafy, for the profecu- inde ting the Recreation we treat of.

1. What it is we purfue.

2. Where and When to find that we would delight ad i our felves in.

3. With what proper Mediums or Measures we Ca. may obtain the defired Effects of our endeavour att therein.

First then, What we pursue is Fish, distinguish'd iver according to their fundry kinds by these following it of

Names.

lig The Barbel, Bream, Bleak, Bull-head or Miller's Per thumb ; Chevin, Char, Chumb, Carp ; Dace, Dare le D Eel; Flounder; Grayling, Gudgeon, Guiniad; Loach the Minnow; Pope or Pike, Pearch; Rud, Roach; Stickle Gu. bag or Bansticle, Salmon Shad, Suant; Tench, Toroid coth, Trout, Thwait and Umber. All these Alphabe rook tically thus named, are the different forts of Fish id a in taking which the Angler commonly exercise Th bb a his Art: We come next, Where to find them.

Prey. 1. To know the Haunts and Reforts of Fish, in fields, which they are to be usually found, is the most Ma-voods, trial thing the Angler ought to be instructed in, If he vainly prepare how to take them, and prepodge is eroufly leek where to find that he prepar'd for. your revent which, you are first to understand, That as Rails, he Season of the Year is, so Fish change their Places: are for a Summer, some keep near the Top, others, the end of ottom of the Waters. In Winter, all Fish in geeral refort to deep Waters. But more particularly, The Barbel, Roch, Dace and Ruff, covet most udy, gravelly Ground, the deepest part of the liver, and the Shadows of Trees.

Bream, Pike and Chumb delight in a Clay, and waie Ground: The Bream chooseth the middle of eatife te River, in a gentle, not too rapid Stream: The h Re- the preferreth still Waters, full of Fry, and absconvations ing himself amongst Bull-Rushes, Water-Docks, or ofecu. nder Bushes, that under these Shelters he may more curely surprize and seize his Prey: The Chub too noofes the same Ground, large Rivers and Streams, elight ad is rarely destitute of some Tree to cover and

hade him.

es we Carp, Tench and Eel, frequent foul, muddy, still avour laters. The greatest Eels lurk under Stones, or oots; the smallest ones are found in all forts of wish's ivers or Soils: The Carp is for the deepest, stillest owing ut of Pond or River, and so is the Tench, and both

light in green Weeds.

Pearch delighteth in gentle Streams of a reasona-

Dare le Depth, not too shallow: close by a hollow Bank Loach their Sanctuary. Stickle Gudgeon covets Sandy, Gravelly, Gentle Streams, b, Tor id smaller Rivers; not so much abounding in phabe rooks. He bites best in Spring, till they spawn,

Fish id a little after till Wasp time.
ercises The Salmon delights in large swift Rivers, which is and flow; and are there plentifully to be found: I. To

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As likewise Rocky and Weedy Rivers. But in the latter end of the Year he is to be found high up in the Country, in swift and violent Cataracts, coming

thither to spawn.

The Trout loves small swift purling Brooks or Rivers, that run upon Stones or Gravel, and in the swiftest, deepest part of them, getting behind some Stone-block, and there feeds. He delights in a Point of a River where the Water comes Whirling like the Eddy, to catch what the Stream brings down, especially if he has the shade of a Tree: He hugely delights to lurk under some hollow Bank or Stone; feldom among Weeds.

Shad, Thwait, Plaice, Peel, Mullet, Suant, and Flownder, covet chiefly to be in or near the Salt or Brackish Waters, which ebb and flow: The last, viz. the Flownder, have been taken in fresh Rivers, as coveting Sand and Gravel, deep gentle Streams

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near Banks, Oc.

· Laftly, the Umber affects Marly, Clay Ground, clear and swift Streams, far from the Sea; the greatest Plenty of these Fish is found in Darby-shire

and Stafford-Shire.

Thus much for the Haunts of Fish: I come next to know When is the most seasonable time to catch ish them; which before I speak to, let him that would it become a compleat Angler, take this Rule. That 5 he observe narrowly what Pond or River soever he free fisheth in, whether it be slimy, muddy, stony or free fisheth in, whether it be slimy, muddy, stony or free fisheth in, whether it be slimy, muddy, stony or free fisheth in, whether it be slimy, muddy, stony or free fisheth in the slime of slime in the slime of slice or slow was a slice of slice or slow that the slice of slice or slow that the slice of slice or gravelly, whether of a swift or slow Motion; as The likewise that he know the Nature of each Fish, and the what Baits are most proper for every kind: Not to let his Knowledge be circumscribed to one or two he particular Rivers, whither he is invited to Angle and take his Observations by the Vicinity of his 6. House; but to let his Knowledge be general, and lear consequently his Sport will be so too. His Ignorance otherwise will oblige him to be a Spectator in car) in the up in ming

ks or in the fome in a irling brings Tree: Bank

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mother River, when his Excellency is confin'd to that only experienced one in or near his own Parish or House. But to proceed.

II. To understand the best Time when to Angle in, We must first consider Affirmatively, when most Seasonable: Or, 2. Negatively, when Unseasonable.

1. Seasonable Angling is, when the Weather is alm, serene and clear; tho' the Cool cloudy Weather in Summer is to be preferred, provided the Wind blow not too boistrously, to hinder your easy Guiding your Tools; in the hottest Months the cooler the better.

2. When a violent Shower hath disturbed the Water and mudded it, then with a red Worm, Angle in the Stream at the Ground.

3. A little before Fish Spawn, when they repair to gravelly Fords, to rub and loofen their full Bellies; they bite freely.

the the Morning, and from four in the Afternoon till Night for Carp and Tench. In June and July, Carps hew themselves on the very rim of the Water, them catch would al Fly. But be sure to keep out of sight.

would al Fly. But be fure to keep out of fight.

That

5. In March, April, and September, and all Winger, when the Air is clear, ferene and warm. And fter a shower of Rain, which hath only beaten the one is and Flies into the River, without muddying. The two first mention'd Months with May and part of June, are most proper for the Fly; Nine in the Morning, and Three a Clock in the Afternoon, is the best time; as likewise, when the Gnats play much had and lear Night, for the Brightness of the Night (through the storm of the storm of the Day emboldening and rendering them.

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them (through Hunger) sharp, and eager upon fool, they bite then freely.

7. Lastly, at the opening of Milldams or Sluces, you will find Trouts, &c. come forth seeking Food, brought down by the Water. We come next to

demonstrate the time not proper, i. e.

2. Unseasonable Angling, in short is, when the Earth is parched and scorched with vehement Heat and Drought; benummed and frozen with Cold, Frost and Snow, or refrigerated with Spring Hoarfrosts; or blasted with the sharp, bitter, nipping, North or East Winds: Or when blustring Breas disorders your well guiding your Tackling, or the Sheep-shearers Washings glutted the Fish, and anticipated your Bait; when the withdrawing of your Sport foretels a Storm, and advises you to some shelter, or lasty, when the Night proves Dark and Cloudy, you need not trouble your self the next

Day, 'tis to no purpose, &c.

III. For providing Stocks, the best time is the Winter Solftice, when the Sap is in the Roots of Trees, and their Leaves gone. It is improper after January, the Sap then ascending into the Trunk, and expanding it felf over all the Branches. See that your Stocks be Taper-grown, and your Tops of the best Ground-Hazle that can be had, smooth, slender and firait, of an Ell long, pliant, and bending; and yet of a strength, that a reasonable jerk, cannot break it, but it will return to its first Straightness, lest otherwise you endanger your Line. Keep them two full Years before you use them; having preserved them from Worm-eating or Rotten, by thrice a Year rubbing, and chaffing them well with Butter (if fweet) or Linfeeed or Sallet-Oil; and if Bored, Oil poured into the Holes, and bathed four and swenty Hours in it, and then thrown out again, will exceedingly preserve them. The

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The Line, to make it near, handsom and strong, twist the Hair you make it of eyen, having feen if the Hair be of an equal Bigness; then steep your. Line in Water, to see if the Hairs shrink, if so, you must twist them over again. The Colour of the Hair is best of Sorret, White and Grey; Sorrel for muddy boggy Rivers, and the two last for clear Waters. Nor is the Pale watry-green contemptible. died thus; Take a pint of strong Ale, half a Pound of Soot, a little of the Juice of Walnut-leaves and: Allum; Boil these together in a Pipkin half an Hour, take it off, and when 'tis cold, put in your Hair. In making your Line of Hair, mix not Silk; but either all Hair or all Sick; as likewise distingui h the Line for the Ground Angle, and that for the Fly-rod, the last must be stronger than the first; in that for the Artificial Fly, making the uppermost Link twenty Hairslong, less in the next, and so less till you come to the Fly. Lastly, at each end of your Line make a Loop, (called a Bout) the one larger, to fasten to, and take it from the top of your Rod; and the other, leffer, to hang your Hook-line on.

Your Hook must be long in the Shank, something sound in Compass; the Point straight and even, and bending in the Shank. Set on your Hook with strong small Silk, laying your Hair on the inside of the Hook.

Your Flote challenges divers Ways of making. Some using Muscowy Dack-quills for still Waters. Others the best sound Cork, without Flaws or Holes, Lored through with a hot Iron, and a Quill of a sit Proportion put into it; then pared into a pyramidal Ferm, or in the Fashion of a small Pear, to what Bigness you please, and ground smooth with a Grind-stone or Pumice; this is best for strong Streams.

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In fine, To plum the Ground, get a Carbine Bullet bored through, and in a strong twist hanged on your Hook or Rod. To sharpen your Hook, carry a little Whetstone. To carry your several Utensils without incommoding your Tackle, have several Partitions of Parchment. And in short the ingenious Angler will not be unprovided of his Bobb and Palmer; his Boxes of all sizes for his Hooks, Corks, Silk, Thread, Flies, Lead, &c. his Linning and Wollen Bait-bags; His splinted Osier light Pannier; and lastly, his Landing-Hook, with a screw at the end, to screw it into the Socket of a Pole, and stick'd into the Fish, to draw it to Land: To which Socket, a Hook to cut up the Weeds, and another to pull out Wood may be sasted.

Baits are branched into three Kinds.

First, the Life-Baits, which are all kind of Worms, Redworm, Maggot, Dors, Fregs, Bobb, Brown-flies Grashoppers, Hornets, Wasps, Bees, Snails, Small Roaches, Bleak, Gudgeon, or Loaches.

Secondly, Artificial living Baits, of Flies of all forts and shapes, made about your Hooks with Silk and Feathers, at all times seasonable, especially in

bluftering Weather.

Laftly, Dead-Baits, Pastes of all Makings, Wasps widryed or undried, clotted Sheep's-Blood, Cheefe, yo Bramble-berries, Corn, Seed, Cherries, &c. The two sirst good in May, June and July, the two next in Ke April; and the last in the Fall of the Leaf.

Of Flies.

Of Natural Flies, there are innumerable, and there fore it cannot be expected I can particularize all; but find some of their Names I shall Nominate, viz. The Dun-fly, Red-fly, May-fly; Tawny-fly, Moor-fly, Shell sind fly, Flay-fly, Vine-fly, Cloudy or Blackish-fly, Canker- or flies, Bear-flies, Caterpillers, and thousands more, differing Culaccording to the Soils, Rivers or Plants.

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Artificial Flies, are made by the Ingenious Angler. according to Art, in shape, colour and Proportion, like the Natural Fly, of Fur, Wool, Silk, Feathers, &c. To delineate which, I must confess my self not so accurate and skilful a Painter, nor can any Pendrawing illustrate their varous Colours fo, as to direct their Artificial Counterfeit: Nature will help him in this by Observation, curiously flourishingtheir feveral orient and bright Colours, after which they take their Names, as before said: And therefore rew it to furnish your felf with both Natural and Artificial Fifh. Blies, repair in the Morning to the River, and with a Rod beat the Bushes that hang over the Wood Water, and take your Choice.

1. Observe to Angle with the Attificial Fly in Rivers disturbed somewhat by Rain, or in a Cloudy Day, the Wind blowing gently: If the Wind be not so high, but you may well guide your Tackle, in plain Deeps, is to be found the best Fish, and best Sport: If small Wind breeze, in swift Streams is best Angling: Be fure to keep your Fly in perth Silk petual flow Motion; and observe that the Weather illy in fait the Colour of your Fly, as the light Colour'd Wasps wife according to the Waters Complexions, have Cheefe, your Fly fuitable.

e two 2. Let your Line be twice as long as your Rod: ext in Keep as far as you can from the Water-side, the Sun on your back : In casting your Fly, let that fall first; your Line not touching the Water.

3. Have a nimble Eye, and active quick Hand to there strike presently upon the rising of the Fish, lest,

11; but finding his Mistake, he spew out the Hook.

The 4. In flow Rivers cast your Fly cross them, let it shell sink a little, draw it back gently, without breaking Canker or circling the Water; let the Fly float with the ffering Current, and you will not fail of excellent Sport.

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5. Observe to let the Wings of your Salmon Flies to be one behind another, whether two or four, and they and the Tail long, and of the finest, gaudiest means which I we Colours you can choose.

Lastly, In clear Rivers, a finall Fly with slender Cl Wings is best, and in muddiest Rivers a Fly of a half

more than ordinary large Body.

Thus much for Flies, I come next to that I cal the led Dead-Baits, and shall begin with the several the ways of making Pastes.

Of Pastes.

fine

or A

1. Beat in a Mortar the Leg of a young Coney Tal (vulgarly called the Almond) or of a Whelp or con Catling, and a quantity of Virgins Wax and Sheeps ing fuet, till they are incorporated, and temper them I with clarified Housey into Paste. with clarified Honey into Paste.

2. Sheeps-blood, Cheefe, fine Manchet and clarified eg

Honey tempered.

3. Sheep's Kidney-Suet, Cheese, fine Flower, with T clarified Honey tempered.

4. Cherries, Sheep's-blood, Saffron, and fine Manches na IlA,

made into a Paste.

5. Beat into a Paste the fatest old Cheese, the A strongest Rennet can be got, fine Wheat-flower and ide.
Annis-seed Water: If for a Chub you make the Paste, T put a little rufty Bacon.

Laftly, Mutton-Kidney-Suet, and Turmerick reduced une, to a fine Powder, the fattest old Cheese and strongest fore Rennet, wrought to a Paste, adding Turmerick, till th the Paste be of a curious Yellow; and is excellent learn H n H

for Chevin.

Anoint your Bait with this Confection: Take the le Oil of Afpray, Coculus Indie, and Affa-fætida beaten, calt and mix with it as much Life-Honey; then dissolve ad I them in the Oil of Polypody, and keep it in a close reak Glass for your use. And that your Paste may not Fo wash off your Hook, beat Cotton-Wool or Flax ingl of le. into it.

Of keeping Baits.

The Red worm must be kept in a Bag of Red lender cloth, with a handful of chopt Femnel, mixt with a half so much fresh, black and fertile Mould, will coure and preserve them: All other Worms, with the Leaves of Trees they are bred on, renewing them often in a Day. Only the Cad-bait, Bub and Canker, &c. must be kept in the same things you find them.

The great White Maggots, keep them in Sheep's:

Coney Tallow, or little bits of a Beast's Liver; and to
kour them, hang them warm in a Bag of BlanketSheeps ing with Sand.

The Frogs and Grashoppers, in wet Moss and long Grass, frequently moistned; and when used, the arished legs of the first, and the Wing of the other must

e cut close off.

with The Flies, whe them as you take them. Only, he Wasps, Hornets, and Humble-Bee, must be dry'd fanches in an Oven, their Heads dipt in Sheep's Blood, and by'd again, may be kept in a Box for use.

the And now thus equipt, let us walk to the River's

er and ide.

r Flies

Paste, To begin then with the Barbel. The best timeor Angling for this Fish is at the latter end of May,
duced une, July, and beginning of Agust, in his Haunts
ongest foremention'd; and the best Bait (omiting others)
k, till the well scoured Lob-worm (being of a curious sellent leanly Palate as well as Shape) or Cheese steep'd

he the ile Fish, extraordinary strong, and dogged to be eaten, east with, and therefore be sure to have your Rod is solve and Line strong and long, or you may endanger to close reak it.

Flax ingle is, from St. James Tide till Barckolmen Tide.

of le spawneth in June or beginning of July; is:

easily taken, as falling on his side after one or two gentle Turns, and so drawn easily to Land. The best Bait for him (most delightful to him) is the Red-worm (found in Commons and Chalky Ground after Rain) at the Root of a great Dock, wrapt up in a round Clue. He loves also Paste, Flag-worms Wasps, Green-slies, Butter-slies, and a Grais-hoppe without Legs.

Bait your Ground the Night before with Grossground Malt, boiled and strained, and then in the Morning with the Red-worm bait your Hook, and plumbing your Ground within half an Inch, Fish.

The Bleak, an eager Fish, is caught with all fort of Worms bred on Trees or Herbs, also with Flie Cad-Bait, Bobs, Paste, Sheeps-blood, white Snails, Wasps Gnats, &c. In a warm clear Day the small Fly a the rim of the Water is best; in a Cloudy Day Gentles or Cad-Baits, two Foot under the Water.

The Bull-head or Miller's. Thumb being Children Recreation, I shall speak little of them, only being serviceable for Baits, I shall only say he is easily taken with a small Worm, being lazy and simple and will swallow any thing; and the Minnow, Loach and Bansticle being of the same Diet, I place here

The Chewin loveth all forts of Worms, Flies Cheefe, Grain and Blackworms, their Bellies being flit, that the white may be seen; and very much de lighterh in the Pith of an Oxes Back, the tough out ward Skin being carefully taken off, without breaking the inward tender Skin. In the Morning early Angle for Chewins with a Snail; in the Heat of the Day with some other Bait; in the Afternoon with the Fly; the great Moth with a great Head, yellow Body, and whitish Wings usually found in Gardens about the Evening: The larger the Chewin, the sooner taken; loving his Bait larger, and variety on a Hook.

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The Char is a Lancashire Fish, found in a Mere, call'd Winander-Mere in that Country, the largest in

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For the Chub, called by fome a Chevin, by others Willain. Bait your Hook with a Grass-hopper, find the Hole where he lies, accompanied in a hot Day, with twenty or more, floating almost on the very superficies of the Water; choose which you think best, and fairest, and drop your Hook some two Foot before him, and he will bite at it greedily, and cannot break hold with his Leather Mouth; let him play and tire, lest you break your Line. If you cannot ger a Grass-hopper, then any Worm or Fly you will. In cold Weather, fish for him near the bottom, and the Humble-Bee is the best Bait. Some appropriate Baits according to the Month, but I shall omit that: the Chub (being best and in his Prime in the Winter) a Paste made of Cheese and Turpentine is the only Bait to take him.

The Carp is subtle and full of Policy, will never bite in Cold Weather, but in Hot you cannot be to early or too late. In March he seldom resuseth the Red-worm, in Jane the Cad-bait, and the three next Months the Grass-hopper; Pastes that are sweet, of which I have spoken before, are very delightful to Carps: And especially if you bait your Ground two or three Days before you Angle, with Pellets of course Paste, Chickens-guts, Garbage, &c. Gentles anointed, and a Piece of Scarlet dipt in Honey, put

them on the Hook, is an approved way.

The Dace, Dare, Rudd and Roach, being much of a kind, and feeding, I shall put together, and are easily taken with small Worms, Bobs, Cad-baits, Flies, Sheeps-Blood, all forts of Worms, bred on Trees or Herbs; Paste, Wasps, Gnats, Lipberries, &c. The Heads of the Wasps, being dipt in Blood is good for Dace and Dare; as is likewife the Ant-fly.

The Eelitakes great Red-worms, Beef, Wasps, Guta of Fowl or Fish, Menow or small Roaches are good Bait for Night Hooks; the Hooks being in the Mouth of the Fish. Now, because this is very delightful to most, I shall prescribe three ways of taking them, as are most full of Pleafure. The first way is called Sniggling or Broggling for Eels; thus, Take a strong Line and Hook, baited with a Lob or Garden-worm, and observing where Eels lurk in the Day time, with a stick forked at the top, gently put your Bait into the Hole, and if there be any Eels there, you will not fail of a Bite, of as large as can be had, but pull not too hard, least you spoil all. The second is called Bobbing, which is thus done; take sume large well scoured Lobs, and with a Needle run some strong twisted Silk through them. from end to end, fo many as are enough to wrap about a Board near a dozen times; tye them fast with the two ends of the Silk to hang in so many Hanks; then fasten all to a strong Cord, and a handful above the Worms fasten a Plumbet of three quarters of a Pound, and your Cord to a strong Pole, and in muddy Waters you may Fish, and find the Eels tug Justily, and when you think they have swallowed them, draw up your Line, and ashore with them: Laftly, the Eel-spear made with four Teeth, jagged on both fides, Aricken into the Mud, on the bottom of a River, and if you chance to strike where they lie, you infallibly take. I so oneil a line, bearing

There is likewise an assured way of taking Eels; thus done; take some Bottles of Hay, mixt with green Osers or Willows, Bait them with Sheeps Guts; or other Beasts Garbage sink them down in the middle to the bottom of your Pond, or by the Bank-sides, having fastned a Cord to the Bottles; that you may twitch them up at your Pleasure, and all

the best Hels will refort to them. I have some to be to be

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The Flounder, Shad, Thwait, Suant, and Mullet, are taken with Red-worms of all forts, Wasps and Gentles.

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For the Grayling, you must head your Hook upon the shank with a stender and narrow plate of Lead, that the Bait (a large Grass-hopper) may the more easily come over it; and at the point put a Cad-bait, and keep the Bait in continual Motion: Not forgetting to pull off the Grass-hoppers Wings.

The Gudgeon takes the smallest Red-worm, Wasps, Gentles and Cadbaits. When you Fish for him, stirup the Sand or Gravel with a Pole, which will make them gather thither, and bite more eagerly.

The Guiniad I shall remit speaking to, only mentioning it in course, being no where found but in a Place called Pemble-Mere, in which place they abound, as the River Dee does with Salmon.

The Pope or Ruff is excellent for a young Angler, bites greedily, and quantities may be taken by bairing the Ground with fat Earth, and your Hock with small Red-worms.

The Pike loveth all forts of Baits (unless the Fly) Gudgeon, Dace, Roaches and Loaches, and young Frogs in Summer time, of which the yellowest is best.

The Pearch taketh all forts of Earth-worms, especially the Lob-worm and Brandling, well scowered, Bobs, Oak-Worms, Dors, Gentles, Colewort-worms, Wasper, Gad-baits and Menow, or a little Frog, the Hook being fastned through the Skin of his Leg, towards the upper part of it. Befure you give the Pearch time enough to pouch his Bait before you strike.

The Salmon is taken best with Lob-worms, scented with the Oil of Ivy Berries, or the Oil of Polypody of the Oak; mixt with Turpentine, or the well scow-red Garden-worm, is an excellent Bait. The Salmon bites best in May, June and July, at three a Clock

B

Clock in the Afternoon, if the Water be clear, a

little Wind stirring especially near the Sea.

The Tench is a great lover of large Red-worms first dipt in Tar. As also all forts of Paste made up with strong scented Oils, or Tar, or a Paste made up of Brown Bread and Honey. He will bite too at a Cad-Worm, Lob-worm, Flag-worm, Green-gentle, Cad-bait, Marsh-worm, or soft boil'd Bread-grain, &c.

The Torcoth being before mention'd, I only let you know, that he is only found in the Pool Linperis in Carnarvanshire; and leave you to the Welchmens

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Description; both of him and his Bait.

The Trout is fattest, and in his prime in May, and is caught with all forts of Worms, especially Brandlings, commonly found in an old Dung-hill, Cowdung, Hogs-dung, or Tanners-bark: Also with Flies Natural and Artificial, with young Frogs, Minow, March, Dock or Flag-worms; all forts of Cad-bait, Dors, Bobs, Palmers, Gentles, Wasps, Hornets, &c. and with the Caterpiller, used according to the Rule before pre-

scribed for the Grayling. Lastly,

The Umber is taken as the Trout just now mention'd; and therefore now to your Sport: To affist your well affecting which, I have but this to add; Cast into your Haunts where you use to Fish, once in four or five Days soft boiled Corn (or oftner for Carp and Tench) also Garbages Beasts Livers, chopt Worms, Grains steept in Blood, to attract them to the Place; and to keep them together, throw in half a handful of Grains or ground Mault; but in a Stream cast it before your Hook, that floating towards you, you may draw the Fish thither.

Sundry curious Baits for Fish.

These grow on the Cuccow-Pints or Wake-Robin, and are found in dry Ditches, overgrown with Brambles; they are about the Bigness of Pease, and in July and August are of a loyely transparent Red, and are

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for the first, two will serve, but for the latter, you may put four or five at a time on the Hook.

Oat-Cakes with Cheefe.

Beat these together into a Paste, the Cheese being new, and stick them together with a little Honey, letting the Paste lie all Night in a wet Linnen-Cloth, then sit it up in Baits, and cover your Hook with it.

To keep Bates for the Pike or Night-Hooks.

For this take a fmall Roach, Dace, Loach, Minnow, Smelt, fmall Trout or Pearch, cutting off the Finns on the Back, or fmall Eels well scoured in Wheat-Bran, which will keep them better and longer, taking away the slime and watery Substance that causes them to rot or decay the sooner.

Fishes Eyes.

Take out the Eyes of such Fish as you catch, and put three or four of them on a Hook, and they will prove an excellent Bait for most forts of Fish.

Fat Bacon:

Cut this in little small long Snips, and especially at Snap, it is exceeding good to take a Chub or Pike, from the latter end of August to the beginning of April.

The Pith of a Back-bone of a Sheep.

Take out the Pith that runs through the Bak-bone, and take off the Tough outward Skin, and leave the thin tender white Skin on, and bait with about half an Inch of it, and it takes a Chevin to Admisation.

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Bruise either of these finely, fry them in Honey, make them up into Pastes with Oil of Peter; and either in Winter or Summer they take a Chub, Roach, Dace or Bleak.

How to bring Fish, if any in the Pond or River, to the Place you desire.

Boil clean Barly in Water till it bursts, with Licorice, add a little Mummy; and some Honey, and beat them together in a Morter into a stiff Paste, and boil about the quantity of a Wall-nut of this Paste with a Quart of Barley, till it grows Glutenous, and then lay it for a Ground Bait, and the Fish will flock about it from all Parts.

To make Worms for Baites come out of the Ground.

Boil an Ounce of Verdigrese in a Quart of strong Vinegar and sprinkle a little in Places where you suspect Worms are, and they will crawl out of the Ground.

Another approved Bair.

Take the Fat of a Heron, Mummy and Galbanum; of each two drams, Scent them with a Grain of Musk, and make them up with two Ounces of Aquavita, stir them over a gentle Fire in an earthen Vessel, till they become thick, and with this rub the Hook and end of the Line, and the Scent of it will draw the Fish to it; you must also have at the same time a proper Bait on your Hook for such Fish as are in the Place you Angle.

The Artificial Cod or Cad-bait.

Make the Body of yellow Bees-wax, and head of black Dubin and black Silk, or you may make the Body Body of yellow washed Leather, Shamy or Buff, and the Head all of black Silk, and this is an incomparable Bait for Trout, Salmon or Smelts, and those that are natural are most Excellent Baits for Trout, Grayling, Salmons, Tench, Roach, Chub, Dace, Carp, Tench, Ruff, Bream and Bleak; but then you must Fish with it in clear Water only.

Rules and Confiderations about Baits in general.

Fish in general take all such Baits freely, as Nature at that Season affords in or near the Places where you Agle, for being used to them they are not afraid of any Deceit, but take them as their common Food. And for Flies in this Case, in a Morning or Evening, when you go to Angle, beat the Bushes about the Rivers or Ponds, and fuch Flies as you rouse there, Fish with, either Natural or imitate them by Art; as also see what Worms or other Insects fit for Baits stick on the Leaves, Grass, or are in the Water; and in this Observation you cannot mils of good Sport; and when you have struck gently the backway, draw a little, and be not too hafty to take up before the Fish has had her play, and spent her Strength, lest she break your Tackle. If your Fish be large, you must use your Landing Net.

To take Fish in the Night with a Light.

This is an Admirable way to supply you with a suddain Dish, viz. Take a Glass in the form of an Urinal very deep, put as much Clay in the bottom of it as will sink the Mouth of it within an Inch of the Water, floating on pieces of Cork, tied about the Neck to keep it steadily upright, then place a Candle in it, by sticking it in the Clay-socket, anointing the out-side of the Glass with Oil of Asper. This Light will shine a great way in a still Water, so that the Fish being amazed at so unusual a Sight, will come out of their Holes about it, and

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d of the lody be detained with the scent of the Oil so long, that with a Hoop-Net you may take great store of them.

Flies proper for every Month.

For February, little red brow Palmer Flies, the that plain Hackle, the Silver Hackle, the Gold Hackle; and the great Dun, the great blew Dun, the dark brown. loo

For March, the little whirling Dun, the early bright Brown, the whitish Dun, the Thorn-tree Fly, the die blue Dun, the little black Gnat, the little bright at Brown.

For April, the small bright Brown, the little dark Brown, the great whirling Dun, the Violet Fly, the yellow Dun, the Horse-slesh Fly.

For May, the Dun-cour, the Green-drake, the Stone-fly, the black May-fly, the little yellow May-Fly, the Gray-drake, the Camlet-fly, the Turkey- Su Fly, the yellow Palmer, the black Flat-fly, the in light brown, the little Dun, the white-Gnat, the be-Peacock-fly, the Cow-lady, the Cow-turd fly.

For June, from the first to the 24th the Green Fi Drake and Stone-fly, the Owl-fly, the Barm-fly, the still Purle Hackle, the purple Gold-Hackle, the Flesh-fly, is the little Flesh-fly, the Peacock-fly, the Ant-fly, the brown Gnat, the little black Gnat, the green mu Grafs-hopper, the Dun Grafs-hopper, the Brown in Hackle.

For July the Badger-fly, the Orange-fly, the little a c white Dun, the Wasp-fly, the Black Hackle, the about Shel-fly, the black brown Dun.

For August the late Ant-fly, the Fern-fly, the white the Hackle, the Harry-long-legs.

For September the Cammel brown Fly, the late and Badger-fly.

For Offsber the same Flies that were used in March

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The best Time to Angle in.

1. If in the hot Months, cloudy Weather is best

when a small Gale ftirs the Water.

2. When the Floods have carried away the Filthes, the that sudden Showers incumbred the Water withal, ackle, and the River and Pond retains its usual Bounds, rown, looking of a whitish Colour.

oright 3. When a violent Shower has troubled or mudto, the died the River, or a little before the Fish spawn, oright at what time they come into the sandy Ground to

loofen their Bellies.

dark 4. After Rains, when the Rivers keep their bounds, yet rife and run swiftly, for then they seek Shelter in Creeks and little Rivulets running into

, the the River.

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MaysirkeySun rife, till Eight in the Morning, and from Four
in the Afternoon till after Sun-set. In March the
beginning of April, and the latter end of September
and all Winter, when there are no great Frosts, the
Fish bite in the warm of the Day, the Wind being
sty, the
still; but in Summer Months Morning and Evening
sh-sly, is best.

green muddied or clouded the Waters, and Fish with Flies in generally, March, April, May, and the beginning of June, is the best for Trout, you may Angle in a clear Star-light Night, for they are then roaving e, the about for Prey; he bites best in muddy Water, and the best time of Fishing for him is from 8 to 10 in white Morning, and from 3 till 5 in the Afternoon.

e late and August, stom three in the Afternoon till Sun-set,

March and in the Morning as before.

8. The Barble bites best early in the Morning, till Ten or Eleven in May, June, July, and the bearing ginning of August.

9. The

9. The Pearch and Ruff bires best all Day in cool

Cloudy Weather.

10. The Carp and Tench bite early and late in for the still parts of the River; June, July and August; as likewise do the Chevin, whose chief Bait is white one Snails, and finall Lamperies.

Ten in the Moraing in muddy Westill Nine or high Ten in the Morning in muddy Water, especially low the Wind blowing hard; for the most part keeping gate in the middle of the Pond or River in May, June, hav

July and August.

12. Angle for the Pike in clear Water, when it and is stirred by a gentle Gale in July, August, September 100 and October; and then he bites best about three in the is y Afternoon; but all the Day in Winter, and in tin April, May, and the beginning of June, early in the peri ind Morning, and late at Evening.

13. The Roach and Dace bire all the Day long at stal the top of the Water at Flies Natural and Artificial, Stal allo at Grass-hoppers, and all ierts of Worms, if the box

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Water be shady.

14. The Gudgeon bites best in April, till she has be si Spawned in May, or if the Weather be cold, till of t Wasp time, and at the end of the Year all Day Hong. near to a gentle Stream. Observe when you may Angle for her, to ffir and rake the Ground, and the Bank Bait will be taken the better.

15. The Flounder in April bites all Day, May, Win June and July, especially in swift Streams, yet he row

will bite, tho' not so freely in a fill Deep.

Of Fish Fends.

Grounds most fit and proper to be cast into a like Pond, are those which are Marshy, or Boggy, or the full of Springs, unfit for Grazing, or to be put to the any profitable use benides. Of these the last, full of affly Springs, will yield the best Water; that which is Marshy

Marshy will feed Fish; and what is Boggy is best

te in for a Defence against Thieves.

guft; First draw by imall Trenches all the Springs into white one place and to drain the rest of the Ground; then mark out the Head of your Pond, and make it the he or highest part of the Ground in the Eye, tho' it be the cially lowest in a level; cut the Trench of your Flood-June, have a swift fall: On each side of which Trench frive in Stakes of Oak, Ash or Elm, six foot long, nen it and fix Inches square; place these in Rows near four ember foot distance, as broad and wide from the Floodgate n the is you intend the Head of your Pond shall go: Dig nd in t in as big and large a Compass as the Ground will in the permit; throw your Earth among the faid Stakes, nd ram it down hard till you have covered the ong at stakes: Drive in as many new ones next the first ficial, Stakes, and ram more Earth above them, with Stakes if the bove Stakes till the Head sides be of a convenient

height: Taking care that the infide of your Banks he has be imooth, even hard and strong, that the Current

, till of the Water may not wear off the Earth.

Marshy

Day Having thus digged eight Foot deep, that fo it n you may carry fix Foot Water, pave the bottom and nd the Banks of the Pend with Sods of Plot Grafs, laying hem close together, pin them down with Stakes and May, Windings: This Grass is a great feeder of Fish, and et he rows naturally under Water. Stake to the bottom f one fide of the Pond Bavens and Bruth-Wood aggots, into which the Fish may cast their Spawn. ay Sods upon Sods to nourish and breed Eels.

The Pond being made, let in Water, and thus into a like, Pearch, Eel and Tench by themselves; bike, Pearch, Eel and Tench (the Fishes Physician) by themselves; for Food of the greater Fishes, put to tore of Roach, Dace, Loach and Menow; and in is aftly, to one Melter put three Spawners, and in

De fiching.

three Years the encrease will be great, and in five

Years with Difficulty be destroy'd.

In 3 Years Sue your Pond; which you must continue to do, for the Roach will increase in such abundance, that eating up the sweet Food, will make other Fish, as Carps, &c. be very lean: Therefore every Year view your Pond, and observe if any such Fry appears, thin them.

To make Carps grow large, &c.

About April, when your Pond is low, rake the sides where the Water is fallen with an Iron-Rake, fow Hay-feeds there, rake it well; and at the end of Summer you shall have store of Grass: In Winter the Water will over-top the Grass, and being Water enough for them, the Carps will refort to the fides, and feed Fla briskly, and grow Fat: Thus do every Summer, Po till you sue your Pond, and no River-Carp can surpass them.

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